## Pioneer sound.vision.soul

# Service Manual

ORDER NO. ARP3254

# PDP-AR05U

## THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-AR05U	KUC	AC120V	

## • This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
PDP-R05U/KUC	ARP3213	

- For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.
- Please connect it to the PLASMA DISPLAY PDP-505PU or PDP-435PU for adjustment and operation inspection.

## 1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ullet Screws adjacent to lacktriangle mark on product are used for disassembly.
- Reference Nos. indicate the pages and Nos. in the service manual for the base model.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
   Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

## **■ CONTRAST TABLE**

PDP-AR05U/KUC and PDP-R05U/KUC are constructed the same except for the following:

			Part	t No.	
Ref. No.	Mark	Symbol and Description	PDP-R05U /KUC	PDP-AR05U /KUC	Remarks
		PCB ASSEMBLIES			
	NSP	MR MAIN BOARD ASSY	AWV2127	AWV2196	
P11- 1		└ MAIN BOARD ASSY	AWZ6926	AWW1002	
		PACKING SECTION			
P7-19		Carton	AHD3244	AHD3335	
		EXTERIOR (1) SECTION			
P9-33	NSP	Label	AAX3131	AAX3168	
		Label (BLUE8)	AAX2786	Not used	
		Label (BLUE16)	AAX2787	Not used	
		EXTERIOR (2) SECTION			
P11-19		Terminal Panel	ANC2361	ANC2372	
		FRONT PANEL SECTION			
P13- 5		Front Panel Assy	AXG1027	AXG1026	
P13-13		Front Panel	AMB2826	AMB2856	

## **■ CONTRAST OF PCB ASSEMBLIES**

## AF MR MAIN BOARD ASSY

Although AWW1002 and AWZ6926 are different in part number, they consist of the same components.

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PDP-AR05U

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ORDER NO. ARP3213

MEDIA RECEIVER

# PDP-R05U PRO-R05U

## THIS MANUAL IS APPLICABLE TO THE FOLLOWINGMODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-R05U	KUC	AC120V	
PRO-R05U	KUC	AC120V	

Please connect it to the PLASMA DISPLAY PDP-505PU, PDP-435PU, PRO-505PU or PRO-435PU for adjustment and operation inspection.







For details, refer to "Important symbols for good services".

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## SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

### NOTICE

## (FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

### REMARQUE

## (POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

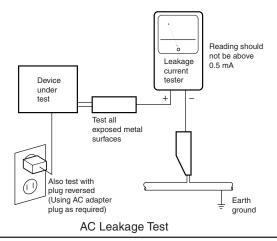
## - (FOR USA MODEL ONLY) -

## 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

## 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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PDP-R05U

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

### 1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

### 2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

## 3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

### 4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

### 5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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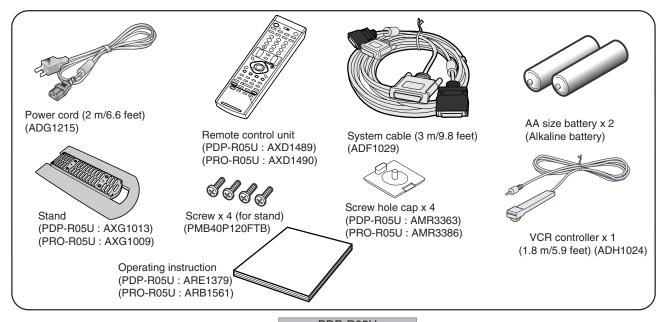
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Item			Media Receiver , Model: PDP-R05U
Reception Sy	stem (Digit	tal)	ATSC Digital TV system
	Circuit	type	8VSB/64QAM/256QAM/QPSK demodulation
	Tuner	VHF/UHF	VHF 2-13ch, UHF 14-69ch
		CATV	2-135ch
	Audio f	ormat	Dolby Digital
Reception Sys	stem (Anal	og)	American TV standard NTSC system
Circuit type		type	Video signal detection PLL full synchronous detection, PLL digital synthesizer system
	Tuner	VHF/UHF	VHF 2-13ch, UHF 14-69ch
		CATV	ANTENNA/CABLE A IN: 1-135ch Cable: 1-125ch
	Audio n	nultiplex	BTSC system
Terminals	Rear	ANTENNA/CABLE A IN	75Ω UNBAL, F Type for DTV/VHF/UHF/CATV in
		ANTENNA B	75Ω UNBAL, F Type for VHF/UHF/CATV in Loop out
		i.LINK (TS)	S400 (2)
		INPUT 1	COMPONENT VIDEO in, S-VIDEO in, VIDEO in, AUDIO in, HDMI in
		INPUT 2	S-VIDEO in, VIDEO in, AUDIO in
		INPUT 3	COMPONENT VIDEO in, AUDIO in, HDMI in
		Monitor Out	S-VIDEO out, VIDEO out, AUDIO out
Terminals		Digital Audio Output	Optical (1)
		VCR Control Output	1
		CONTROL IN	1
		CONTROL OUT	1
		Cable CARD	Point of Deployment
	Front	INPUT 4	COMPONENT VIDEO in, S-VIDEO in, VIDEO in, AUDIO in
		PC	Analog RGB in, AUDIO in
OSD			English/French/Spanish
Power Requi	irement		120 V AC, 60 Hz, 43.3 W (31 W Standby,120 V)
Dimensions			420 (W) · 90 (H) · 295 (D) mm (16 <sup>9</sup> / <sub>16</sub> (W) · 3 <sup>9</sup> / <sub>16</sub> (H) · 11 <sup>10</sup> / <sub>16</sub> (D) inches)
Weight			5.8 kg (12.8 lbs.)

• Design and specifications are subject to change without notice.



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PDP-R05U

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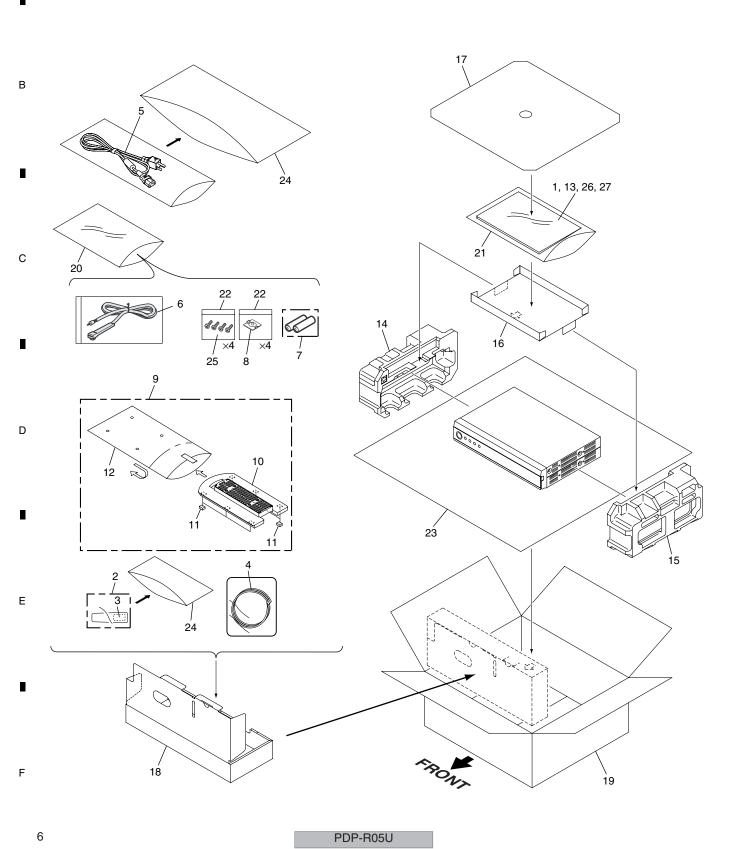
## 2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

## 2.1 PACKING

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## **PACKING SECTION Parts List**

Mark No	. <u>Description</u>	Part No.	Mark No.	<b>Description</b>	Part No.	
1	Operating Instructions	See Contrast table (2)	16	IM Pad	AHB1253	
2	Remote Control Unit	See Contrast table (2)	17	Top Pad	AHB1256	Α
3	Battery Cover	AZA7424	18	Accessory Box	AHC1053	
4	System Cable (3m)	ADF1029	19	Carton	See Contrast table (2)	
⚠ 5	Power Cord	ADG1215	NSP 20	Literature Bag	AHG1303	
6	VCR Controller (1.8m)	ADH1024	21	Vinyl Bag	AHG1340	
NSP 7	Dry Cell Battery (LR6/AA)	VEM1021	22	Vinyl Bag	AHG1337	
8	Screw Hole Cap	See Contrast table (2)	23	Laminated Sheet	AHG1350	
9	Stand Assy	See Contrast table (2)	24	Air Capsule Bag	AHG1351	
NSP 10	Stand	See Contrast table (2)	25	Screw	PMB40P120FTB	
NSP 11	Stand Cushion	AEB1390	26	Manual Sheet	See Contrast table (2)	В
12	Laminated Sheet Bag	AHG1334	27	DCR User Card	ARY1157	
NSP 13	Card	VRY1132				
14	Pad L	AHA2370				
15	Pad R	AHA2371				

**(2) CONTRAST TABLE**PDP-R05U/KUC and PRO-R05U/KUC are constructed the same except for the following:

Mark	No.	Description	PDP-R05U/KUC	PRO-R05U/KUC
	1	Operating Instructions	ARE1379	Not used
		(English/French/Spanish)		
	1	Operating Instructions	Not used	ARB1561
		(English)		
	2	Remote Control Unit	AXD1489	AXD1490
	8	Screw Hole Cap	AMR3363	Not used
	8	Screw Hole Cap UE	Not used	AMR3386
	9	Stand Assy	AXG1013	Not used
	9	Stand Assy UE	Not used	AXG1009
NSP	10	Stand	AMR3352	Not used
NSP	10	Stand UE	Not used	AMR3382
	19	Carton U	AHD3244	Not used
	19	Carton UE	Not used	AHD3245
	26	Manual Sheet	ARM1259	Not used

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## 2.2 EXTERIOR(1) 3 Α 28 54 59 54 30 21 Ė 23 53 · ① 18 **(A)** Refer to \ "2.3 MAIN SECTION (2)". Ε 27 "2.4 FRONT PANEL SECTION". **\$** 53 PDP-R05U

## **EXTERIOR(1) SECTION PARTS LIST**

<u>Mark</u>	No.	<u>Description</u>	Part No.	Mark	No.	<u>Description</u>	Part No.	
	1	TUNER BOARD Assy (U)	AWE1300		31	Caution Label (U)	AAX2999	
<u> </u>	2	Power Switch (TRAP)(S1)	ASG1089		32	SR-Cover	AAX3066	Α
<u> </u>	3	AC Inlet (CN1)	AKP1272	NSP	33	Label	See Contrast table (2)	
	4	Flexible Cable (J201)	ADD1266		34	••••		
	5	Flexible Cable (J204)	ADD1267		35	••••		
		,						
	6	Plug Cord	ADE1191	NSP	36	Serial Label	ARW1100	
	7	3P Housing Wire (J107)	ADX2836		37	••••		
	8	12P Housing Wire (J109)	ADX2918	NSP	38	Case Bottom	ANA1778	
	9	14P Housing Wire (J110)	ADX2919		39	Case Top	ANG2659	
	10	3P Housing Wire (J114)	ADX3067		40	Wind Reflector 2	AEC2011	
<u> </u>	11	Fan Motor 52 x 15L	AXM1048	$\triangle$	41	Gasket C	AEC2014	Е
	12	Center Stay U	ANG2668	$\triangle$	42	Gasket A	AEC7528	
	13	Leg Assy	AXG1012	$\triangle$	43	Gasket B	AEC7529	
	14	Fan Holder 50	ANG2681	$\triangle$	44	PCMCIA Ejector	ANG2673	
NSP	15	Clip	AEC-036	$\triangle$	45	Ground Plate B	ANG2699	
	16	Wire Saddle	AEC1745		46	••••		
	17	Mini Clamp	AEC1967		47	Top Cover	ANG2706	
	18	Side Type Mini Clamp	AEC2003		48	Rivet A	BEC1158	
	19	Wind Stopper A	AEC2006		49	••••		
	20	Wind Stopper B	AEC2007		50	••••		
								C
	21	Wind Stopper C	AEC2008		51	Washer	BBN1005	
	22	DTV Cushion L	AED1261		52	Screw	ABA1317	
	23	DTV Cushion S	AED1262		53	Screw	ABZ30P080FTC	
	24	Rear Cover	AMR3425		54	Screw	BBZ30P060FTB	
	25	Rivet A	BEC1158		55	Screw	BBZ30P200FTC	
NSP	26	Float Rubber RS1	DEB1569		56	Screw	ABZ30P060FTC	
	27	Metal Bonnet Bottom	See Contrast table (2)		57	Screw	BBZ30P080FTC	
	28	Bonnet Top	See Contrast table (2)		58	Screw	PMZ20P080FTC	
	29	Serial Sheet	AAX2609		59	Screw	See Contrast table (2)	D
	30	Solder Warning Label	AAX2644		60	Wind Reflector	AEC7521	D

(2) CONTRAST TABLE PDP-R05U/KUC and PRO-R05U/KUC are constructed the same except for the following:

			•	ŭ
Mark	No.	Description	PDP-R05U/KUC	PRO-R05U/KUC
	27	Metal Bonnet Bottom	ANE1632	Not used
	27	Metal Bonnet Bottom (UE)	Not used	ANE1634
	28	Bonnet Top (U)	ANE1636	Not used
	28	Bonnet Top (UE)	Not used	ANE1633
NSP	33	Label U	AAX3131	Not used
NSP	33	Label UE	Not used	AAX3132
	59	Screw	ABZ30P080FTC	ABZ30P060FTB

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PDP-R05U

61 Screw

ABZ30P060FTB

## 2.3 EXTERIOR(2) 2 3 Α 16 20 В 36 **(D)** С K 42 В 31 32 Е 27 44 44 &‴ 42 g Ģ 10 PDP-R05U 2

## **EXTERIOR(2) SECTION PARTS LIST**

Mark No	. <u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	MR MAIN BOARD Assy	AWZ6926	26	PCB Holder	AEC1097	
2	AV BOARD Assy	See Contrast table (2)	27	Spacer	AEC1256	Α
3	MDR Assy	AWZ6922	28	Locking Card Spacer	AEC1429	
4	SR Assy	AWZ6923	29	Nyron Rivet	AEC1671	
5	FRONT Assy	See Contrast table (2)	30	Wire Saddle	AEC1745	
6	LED Assy	AWZ6925	31	Barrier A	AEC1936	
7	LLD ASSY	AVV20923	32	Re-use Wire Saddle	AEC1945	
<i>^</i> !\ 8	POWER SUPPLY Unit	AXY1091	33	Edge Saddle	AEC1946	
9	Flexible Cable (J205)	ADD1209	34	Mini Card Spacer	AEC1959	
10		ADD1210	35	Circuit Board Spacer	AEC1964	
			0.0	0 1 1 5	ANU(4700	_
11	( /	ADD1213	36	Gasket F	ANK1722	В
12	( /	ADD1214	37	Card Spacer A	BEC1120	
13	15P Housing Wire (J105)	ADX2833	38	Flexible Cable (J202)	ADD1209	
14	7P Housing Wire (J113)	ADX2914	39	••••		
15	16P Housing Wire (J112)	ADX2917	40	Hexagon Head Screw	BBA1051	
<u> </u>	Fan Motor 60 x 25L	AXM1047	41	Screw	ABZ30P060FTB	
17	Base Chassis	See Contrast table (2)	42	Screw	ABZ30P080FTC	
18	Front Chassis	See Contrast table (2)	43	Screw	BBZ30P060FTB	
19	Terminal Panel	See Contrast table (2)	44	Screw	BPZ30P100FTB	
20	Heatsink HDMI	ANH1618	45	Screw	PMZ26P060FTB	
						С
21	DVI Cushion	AEB1396	46	Screw	BMZ30P060FTC	
22	Fan Holder	ANG2568	47	Front Chassis Sheet	AEC2010	
23	HDMI Shield	ANG2646				
24	Insulation Rubber	AEB1377				
25	Silicone Sheet HDMI	AEB1379				

(2) CONTRAST TABLE PDP-R05U/KUC and PRO-R05U/KUC are constructed the same except for the following:

Mark	No.	Description	PDP-R05U/KUC	PRO-R05U/KUC
	2	AV BOARD Assy	AWZ6978	AWZ6979
	5	FRONT Assy	AWZ6924	AWZ6928
	17	Base Chassis U	ANA1812	Not used
	17	Base Chassis UE	Not used	ANA1817
	18	Front Chassis	ANB1866	Not used
	18	Front Chassis UE	Not used	ANB1868
	19	Terminal Panel U	ANC2361	Not used
	19	Terminal Panel UE	Not used	ANC2367

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# 3 2.4 FRONT PANEL SECTION 26 J В `14 20 21 12 23 (m) 19 С 23 <u>21</u> D Ε

12 PDP-R05U
1 ■ 2 ■ 3 ■ 4

## **FRONT PANEL SECTION Parts List**

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	SW Assy	AWZ6977	16	Damper Holder	AMR3416	
2	SW Holder	ANG2670	17	Escutcheon Ring	See Contrast table (2)	Α
3	SW Spring	ABH1109	18	Sealing Sheet	See Contrast table (2)	
4	Power Button	See Contrast table (2)	19	Sealing Sheet S	See Contrast table (2)	
5	Front Panel Assy	See Contrast table (2)	20	Pioneer Badge	See Contrast table (2)	
6	Magnet Holder	ANG2671	21	Door Cushion	See Contrast table (2)	
7	Magnet Catcher	ANG2675	22	LED Lens	AMR3417	
8	Magnet	AMF1004	23	Screw	BPZ30P100FTB	
9	Gear	AMR3418	24	Screw	JPZ20P035FNI	
10	Damper	AXA1018	25	Screw	BMZ30P060FTC	
11	Panel	See Contrast table (2)	26	Groundig Spring KU	ANG2717	В
12	Door	AAN1473				
13	Front Panel	See Contrast table (2)				
14	Door Holder L	AMR3414				
15	Door Holder R	AMR3415				

**(2) CONTRAST TABLE**PDP-R05U/KUC and PRO-R05U/KUC are constructed the same except for the following:

Mark	No.	Description	PDP-R05U/KUC	PRO-R05U/KUC
	4	Power Button	AAD4128	Not used
	4	Power Button (UE)	Not used	AAD4129
	5	Front Panel Assy U	AXG1018	Not used
	5	Front Panel Assy UE	Not used	AXG1019
	11	Panel (U)	AAK2823	Not used
	11	Panel (UE)	Not used	AAK2824
	13	Front Panel (U)	AMB2826	Not used
	13	Front Panel (UE)	Not used	AMB2827
	17	Escutcheon Ring	AAD4130	Not used
	17	Escutcheon Ring (UE)	Not used	AAD4132
	18	Sealing Sheet (U)	AAL2545	Not used
	18	Sealing Sheet (UE)	Not used	ALL2546
	19	Sealing Sheet S (U)	AAL2552	Not used
	19	Sealing Sheet S (UE)	Not used	AAL2553
	20	Pioneer Badge	VAM1124	Not used
	20	Pioneer Badge B	Not used	PAN1376
	21	Door Cushion	AEB1391	AEB1394

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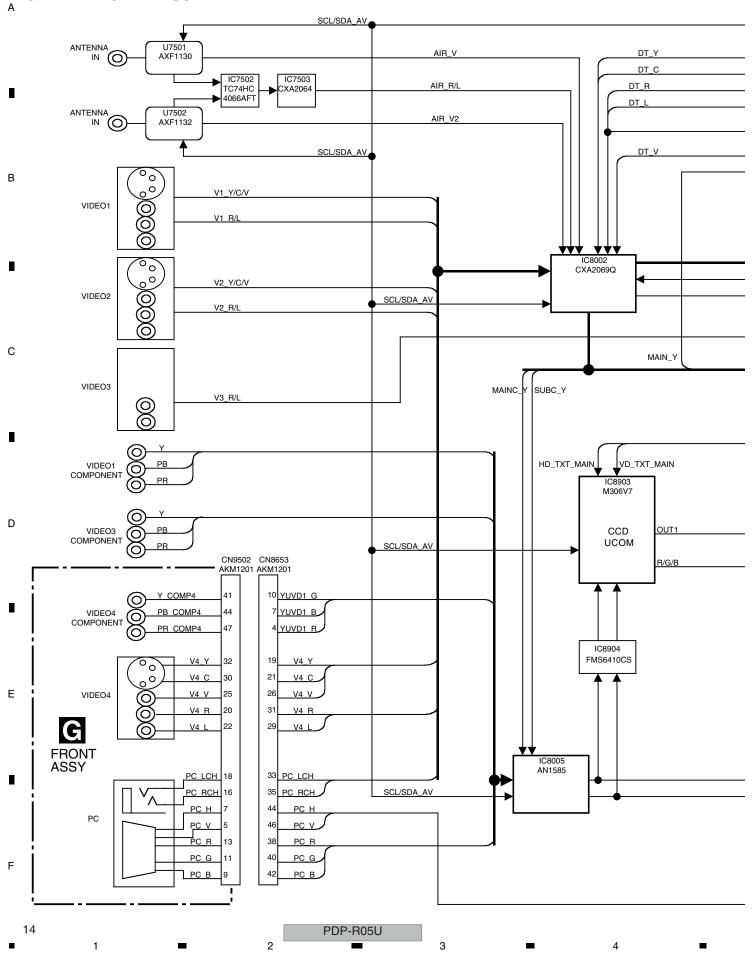
D

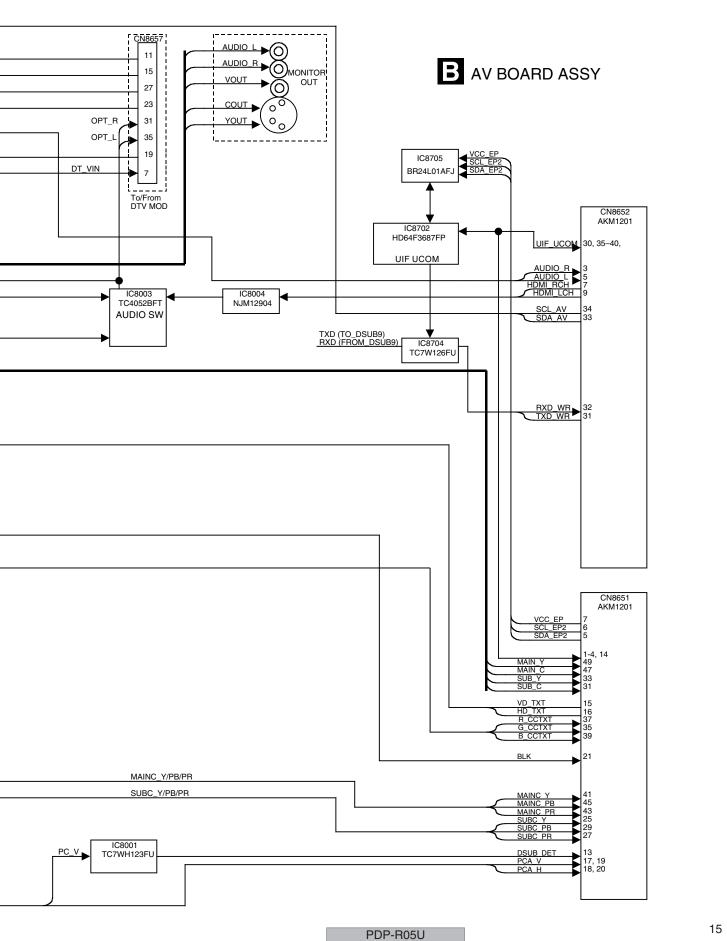
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## 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

## 3.1 BLOCK DIAGRAM

## 3.1.1 AV BOARD ASSY





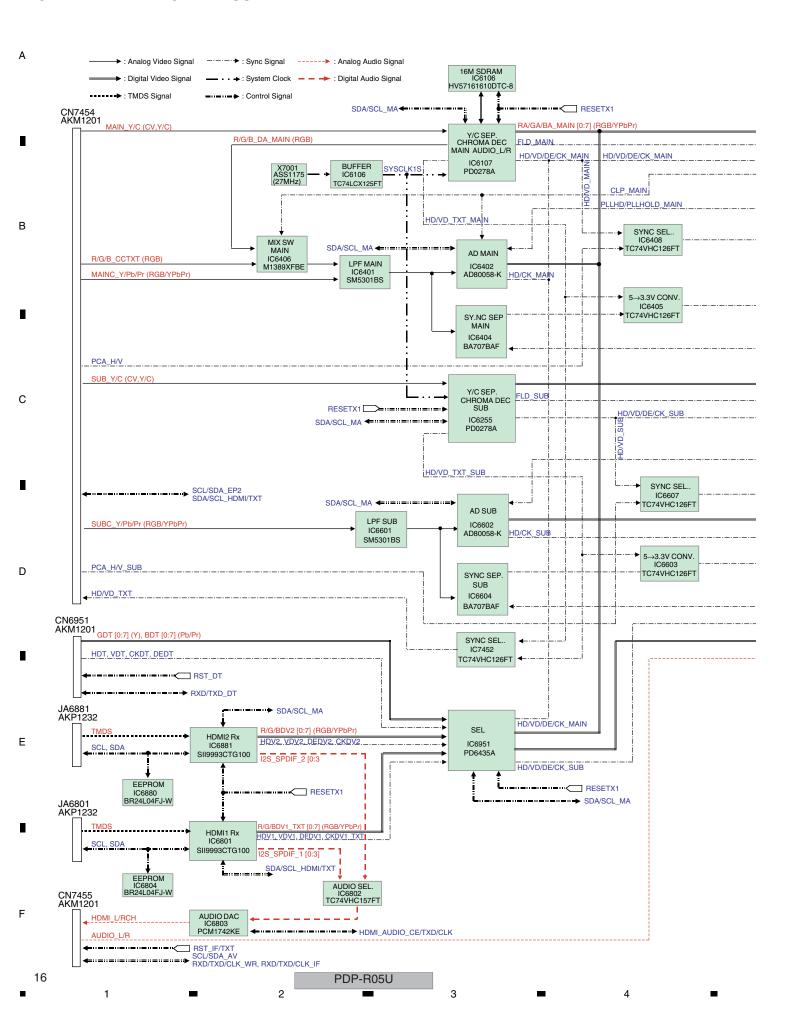
В

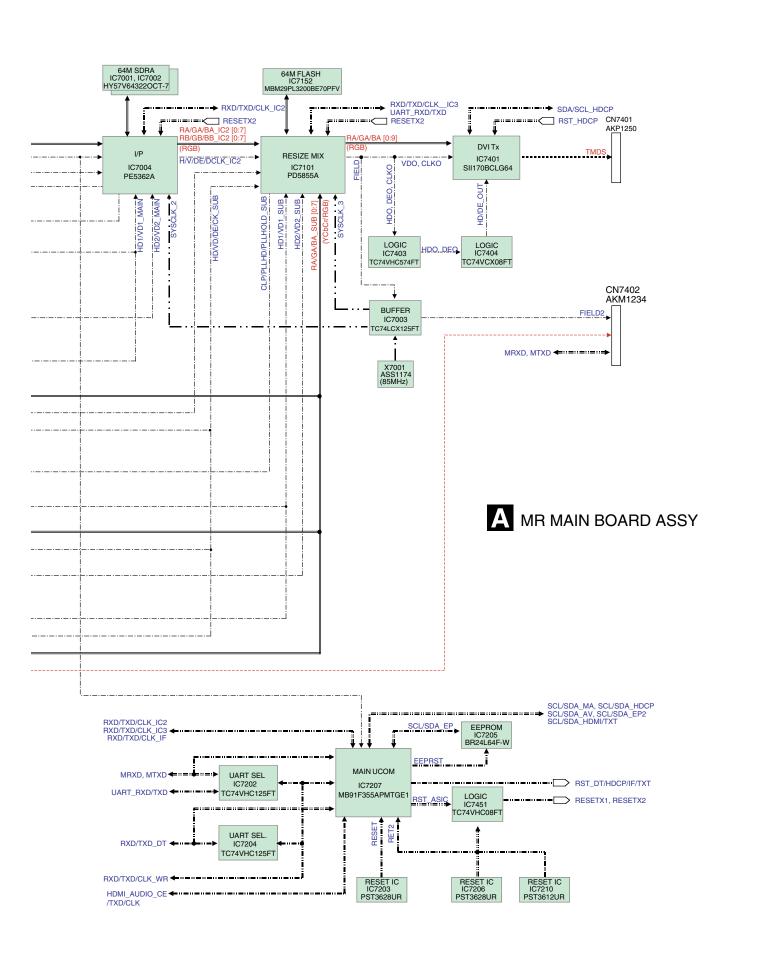
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## 3.1.2 MR MAIN BOARD ASSY





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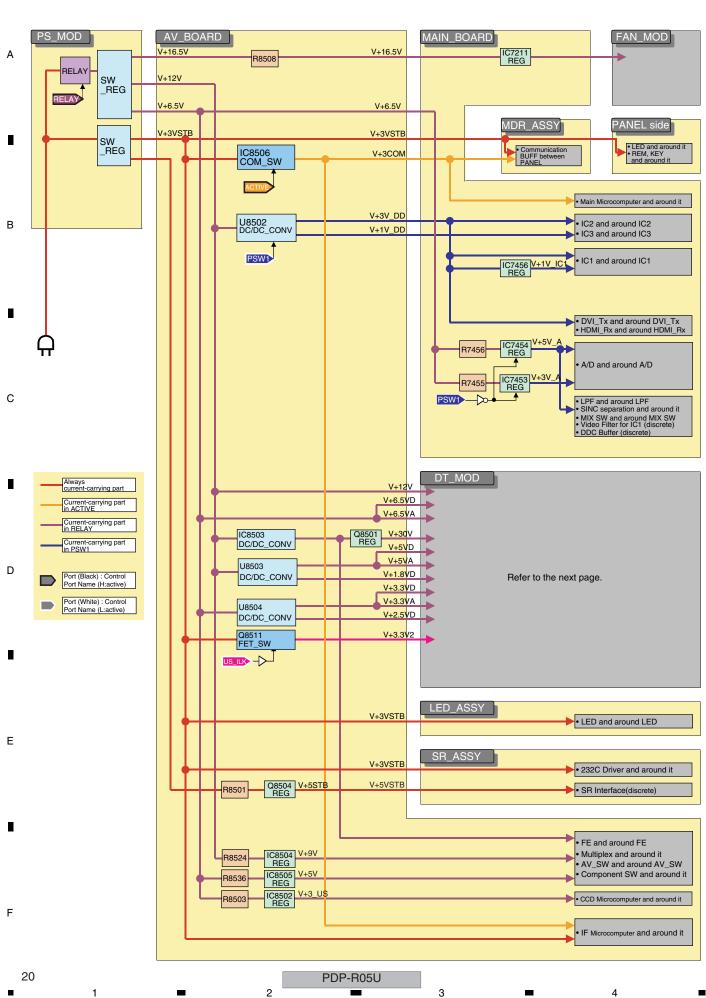
D

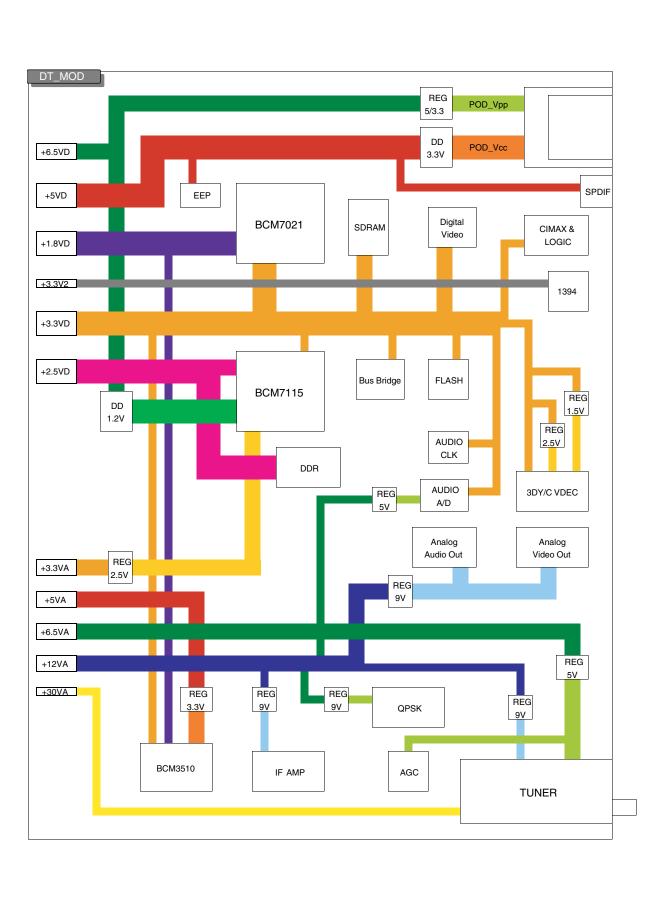
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3.1.5 POWER SUPPLY





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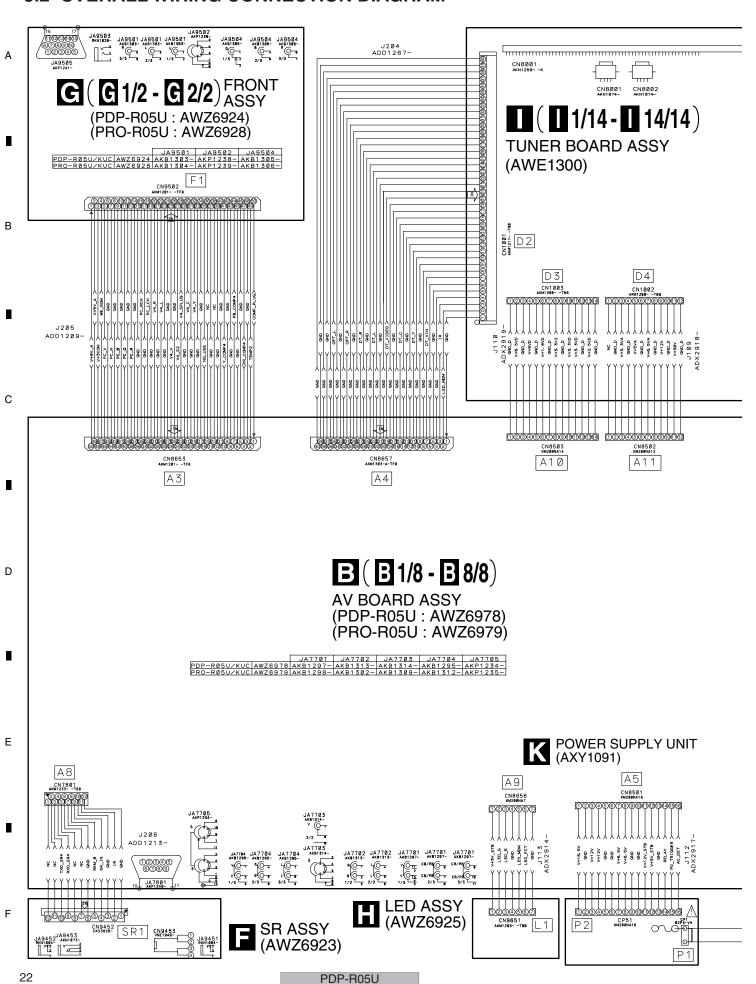
5

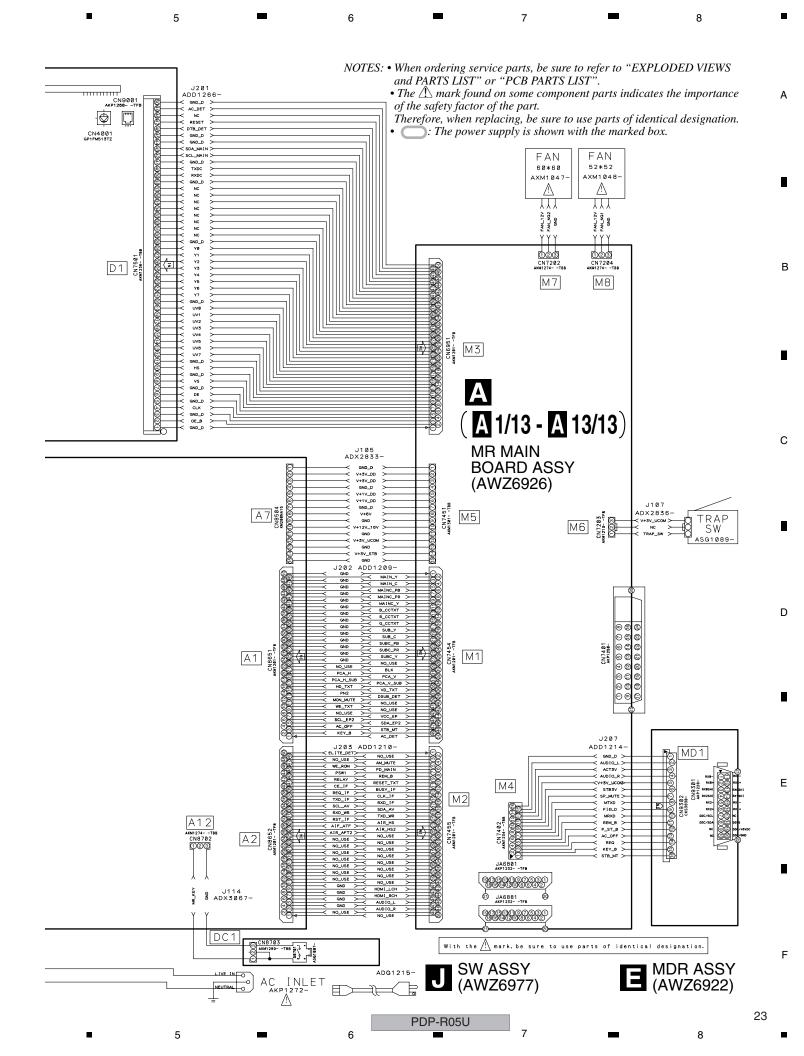
21

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## 3.2 OVERALL WIRING CONNECTION DIAGRAM





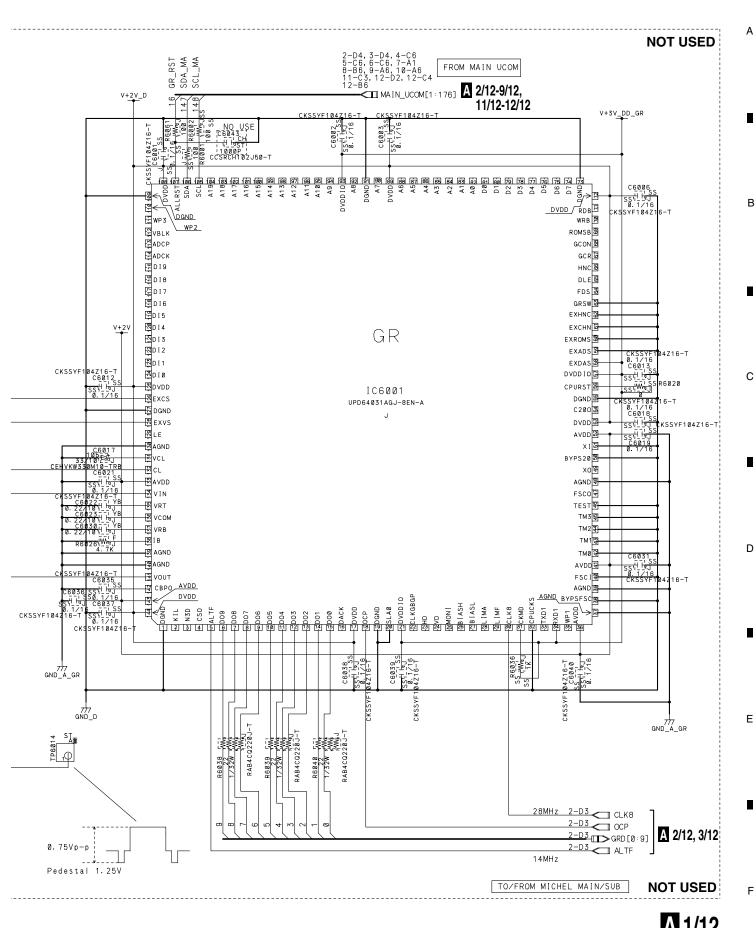
## 3.3 MR MAIN BOARD ASSY (1/12) A 1/12 MR MAIN BOARD ASSY (AWZ6926) NOT USED • GR BLOCK R6021 1,00 R6016 R6015 R6014 R6012 1, Will 0 R6011 7/7 GND\_D R6041 V+5V\_A F6003 R6046 CCG1162- -T Sync-tip 0.75V Sync-tip 4.9V DC 3. 2V from REG [O C6029 1 12J 1. 0u/6. 3V C6027 CEHVKW470M16-TRB A 12/12 AMP & 6M LPF 7/7 GND\_A\_GR V+5V\_A\_GR 2SC4116 (YGR) -TLB C2 B R6035 B R6035 V R6004 to REG IO GR\_OUT <\_\_\_<u>1 2−B 2</u> A 12/12 AMP DC 2. 5V -----**NOT USED**

A 1/12

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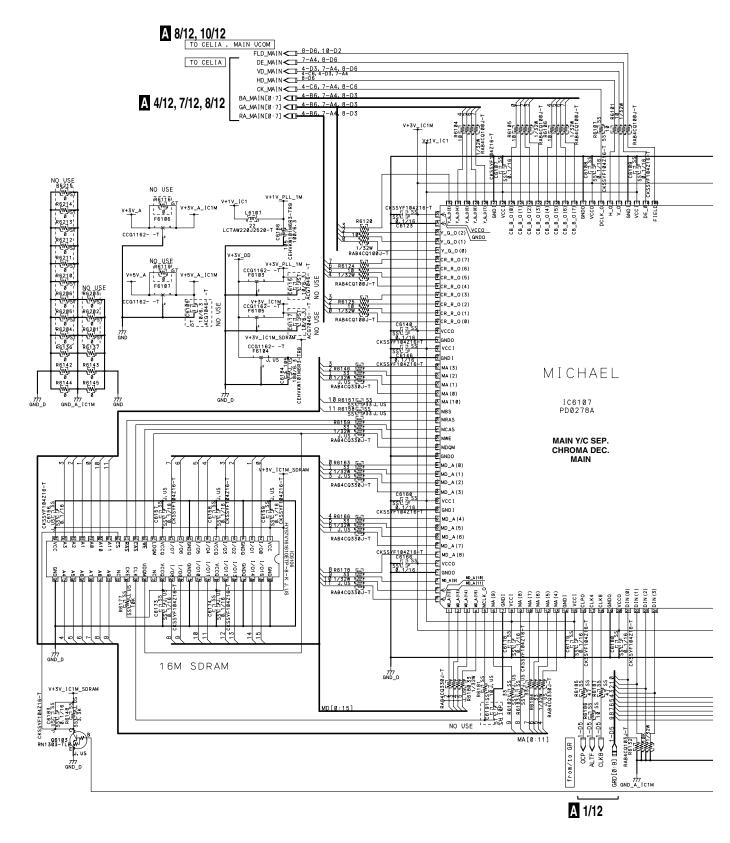


A 1/12

PDP-R05U

## 3.4 MR MAIN BOARD ASSY (2/12)

## A 2/12 MR MAIN BOARD ASSY (AWZ6926) • MICHEL MAIN BLOCK



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A 2/12

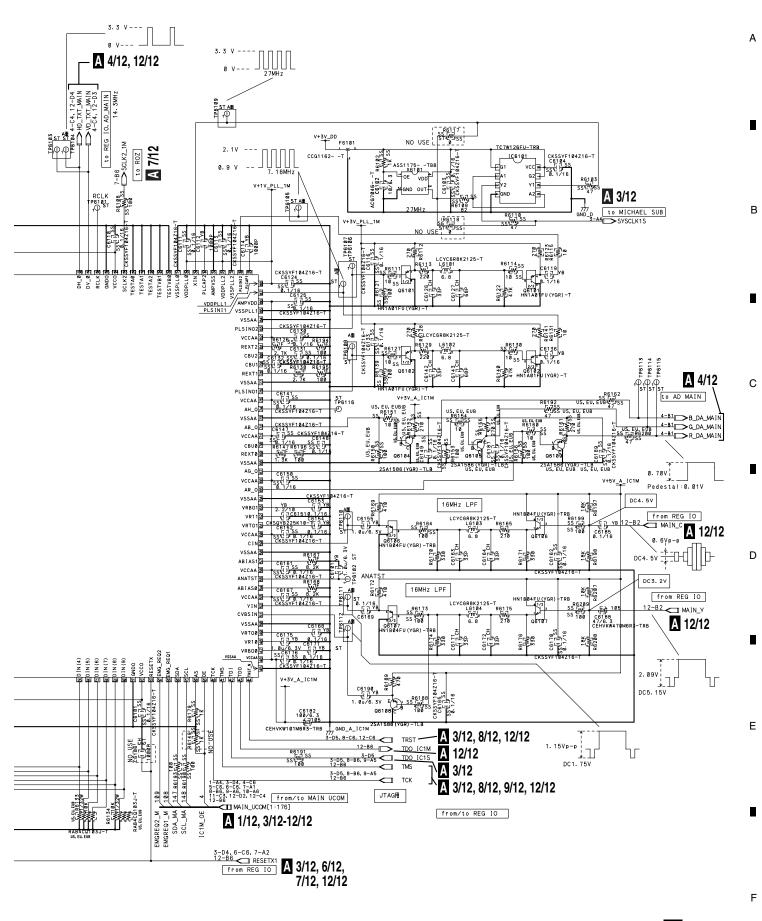
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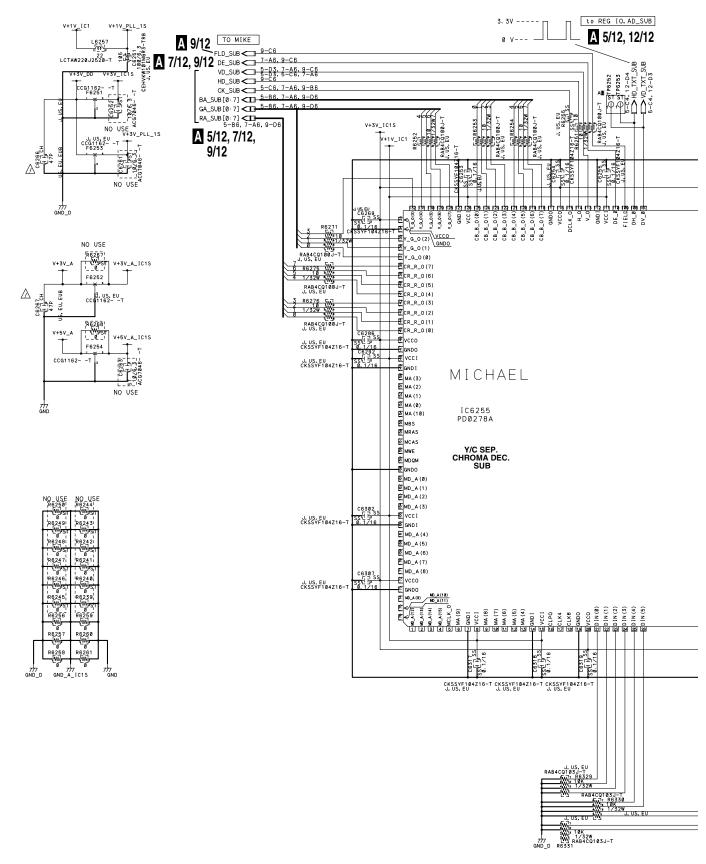
A 2/12

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## 3.5 MR MAIN BOARD ASSY (3/12)

## A 3/12 MR MAIN BOARD ASSY (AWZ6926) • MICHEL SUB BLOCK

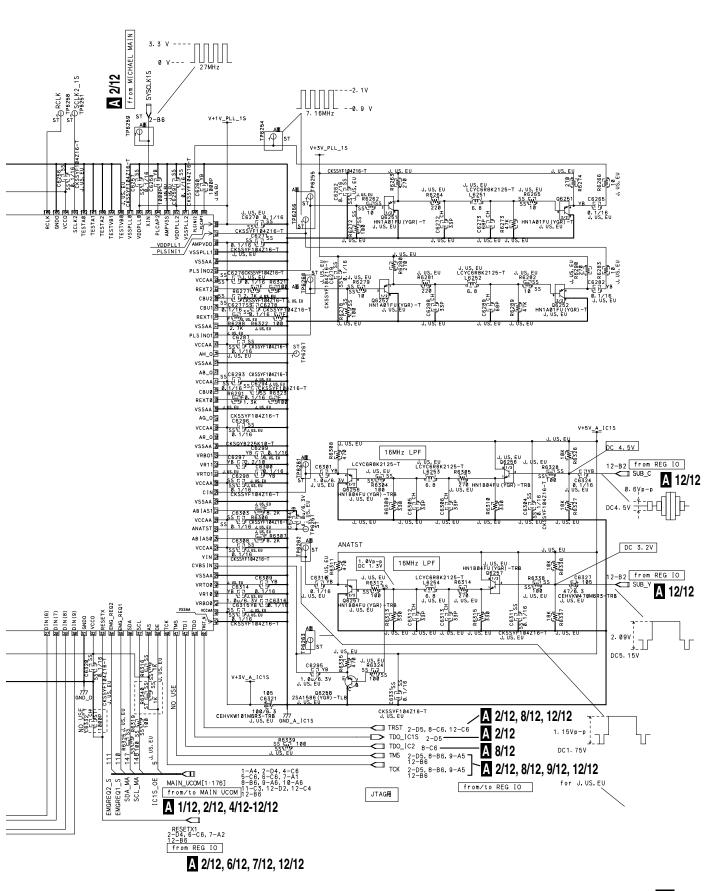


A 3/12

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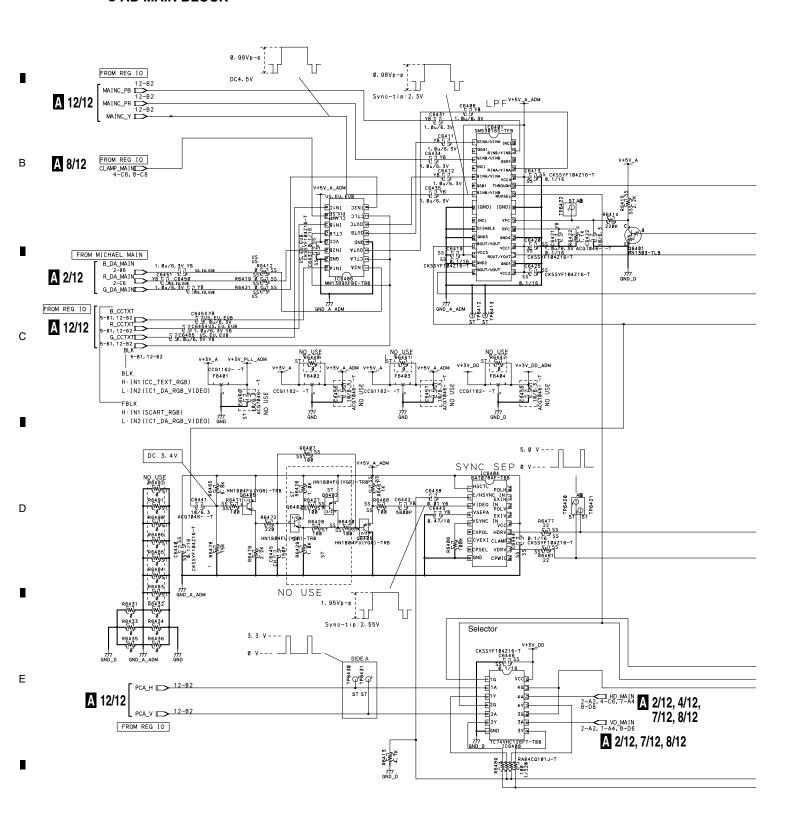
A 3/12

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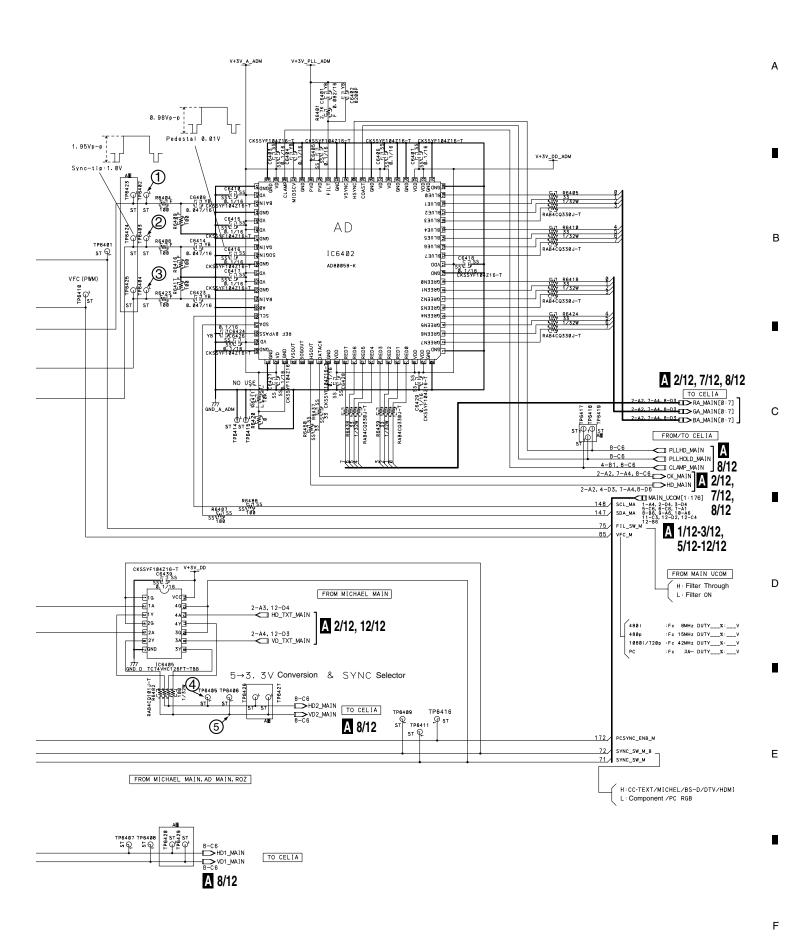
## 3.6 MR MAIN BOARD ASSY (4/12)

## 4/12 MR MAIN BOARD ASSY (AWZ6926) • AD MAIN BLOCK



A 4/12

30



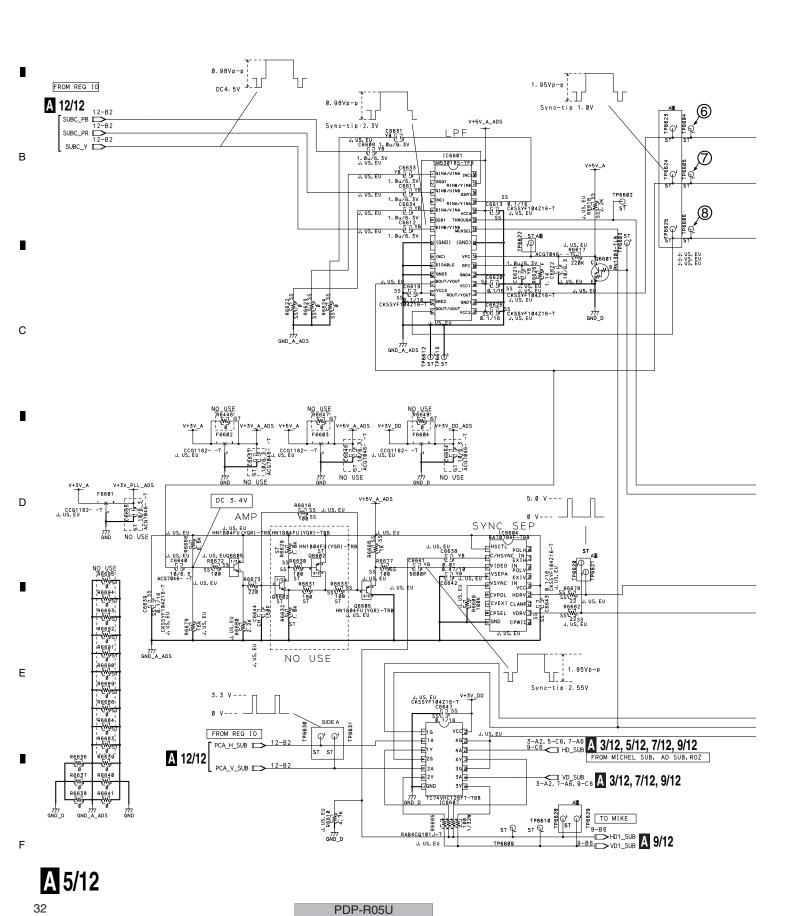
A 4/12

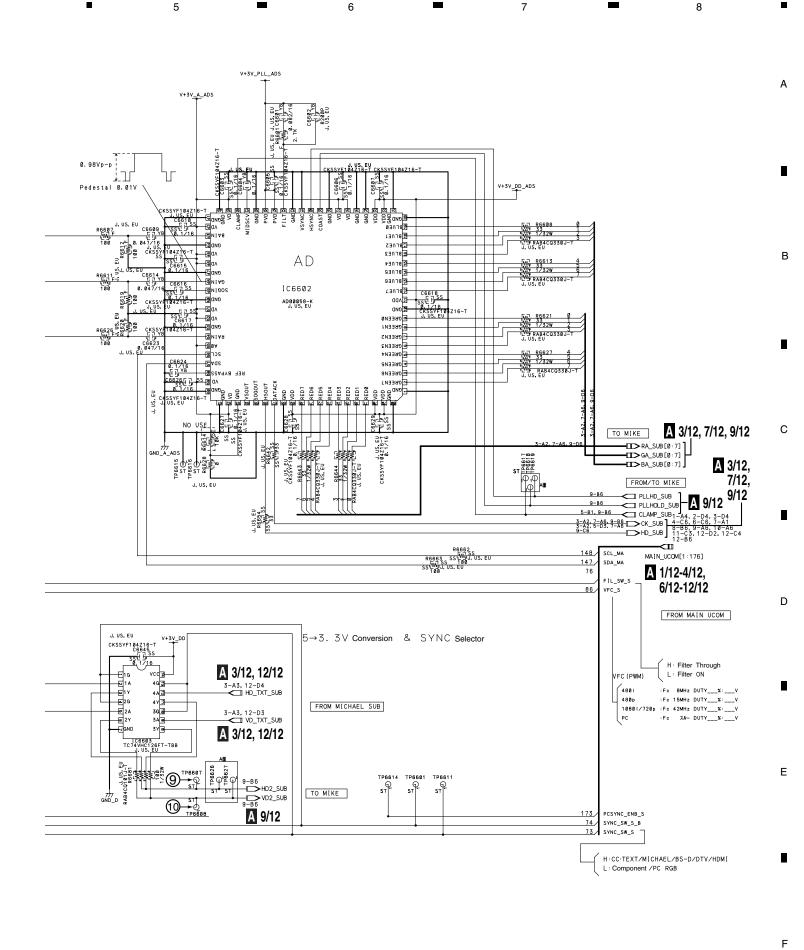
PDP-R05U

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## 3.7 MR MAIN BOARD ASSY (5/12)

## A 5/12 MR MAIN BOARD ASSY (AWZ6926) • AD SUB BLOCK





A 5/12

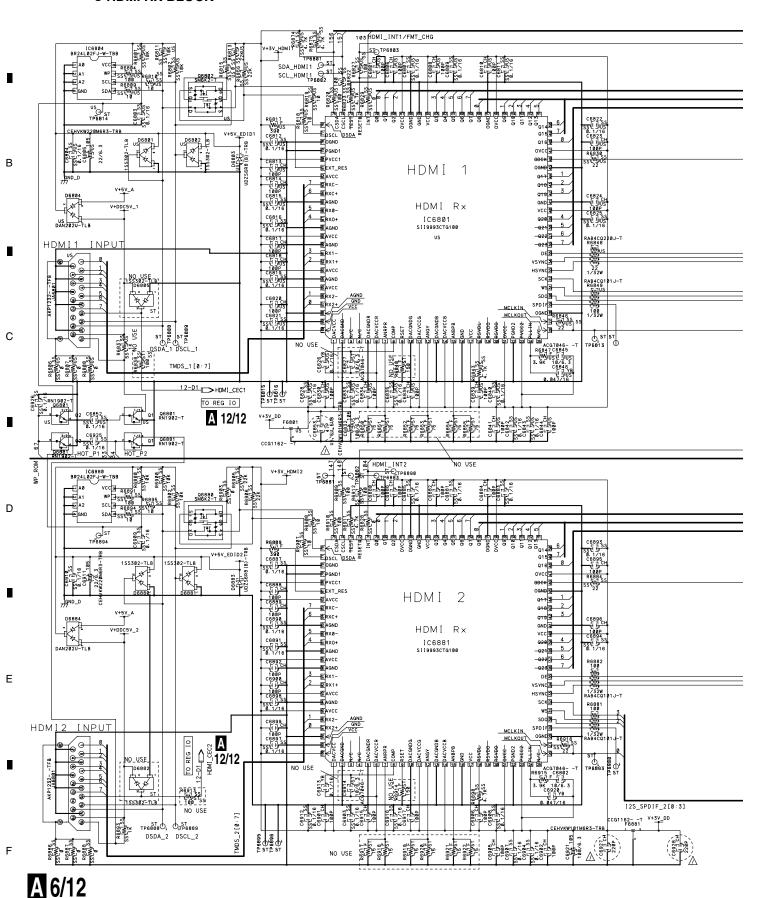
33

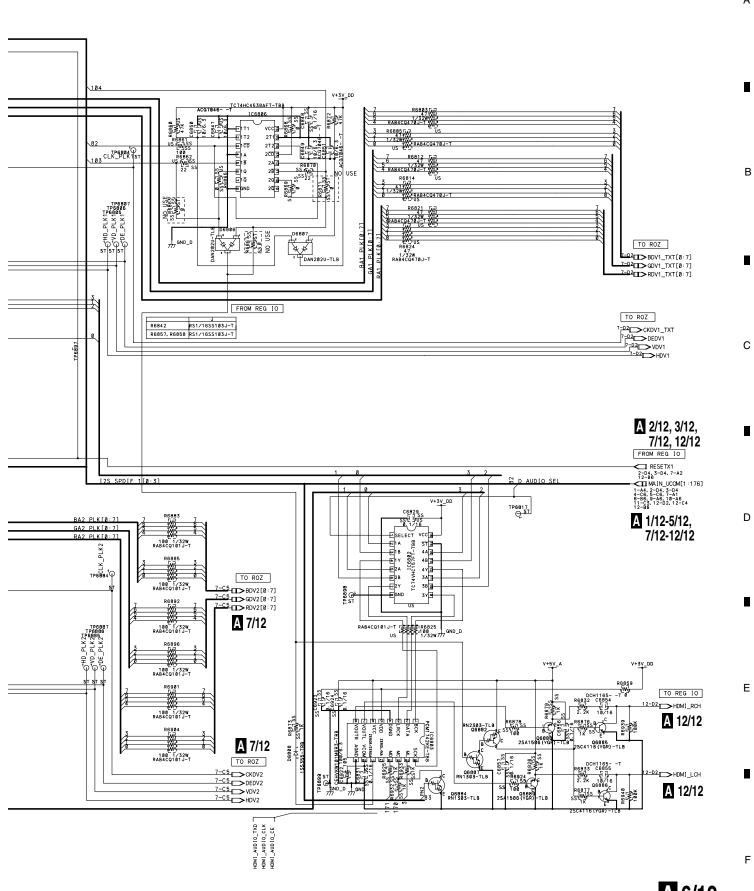
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## 3.8 MR MAIN BOARD ASSY (6/12)

## A 6/12 MR MAIN BOARD ASSY (AWZ6926) • HDMI RX BLOCK

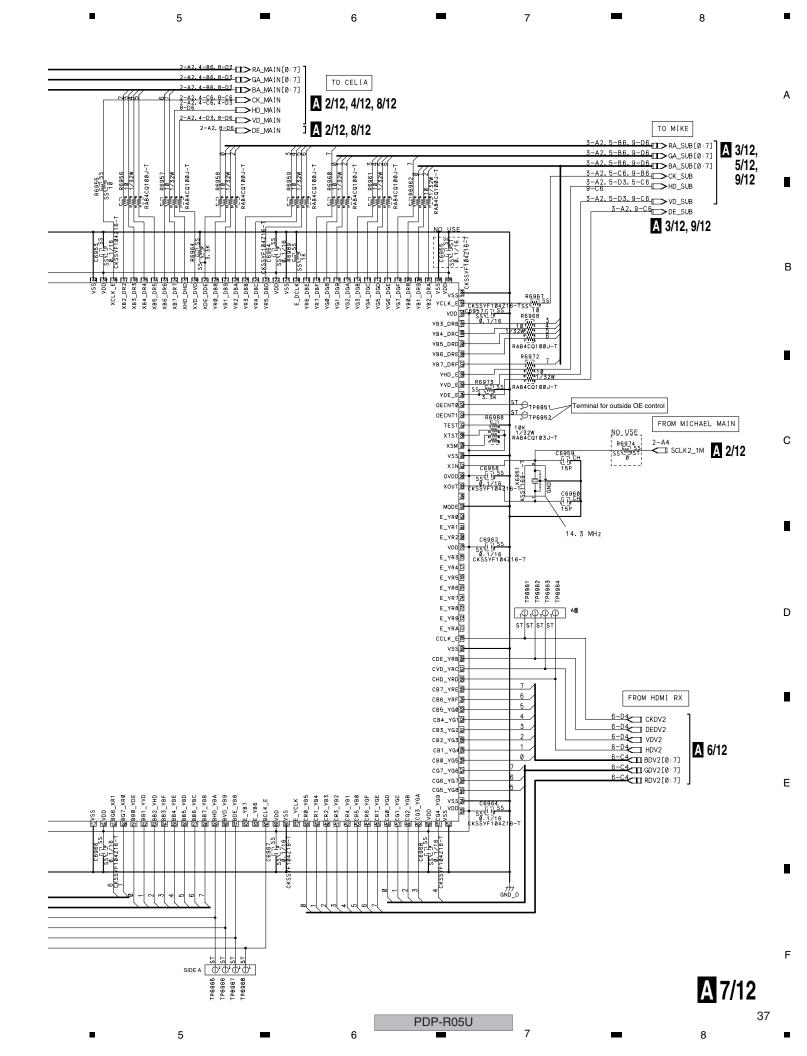




A 6/12

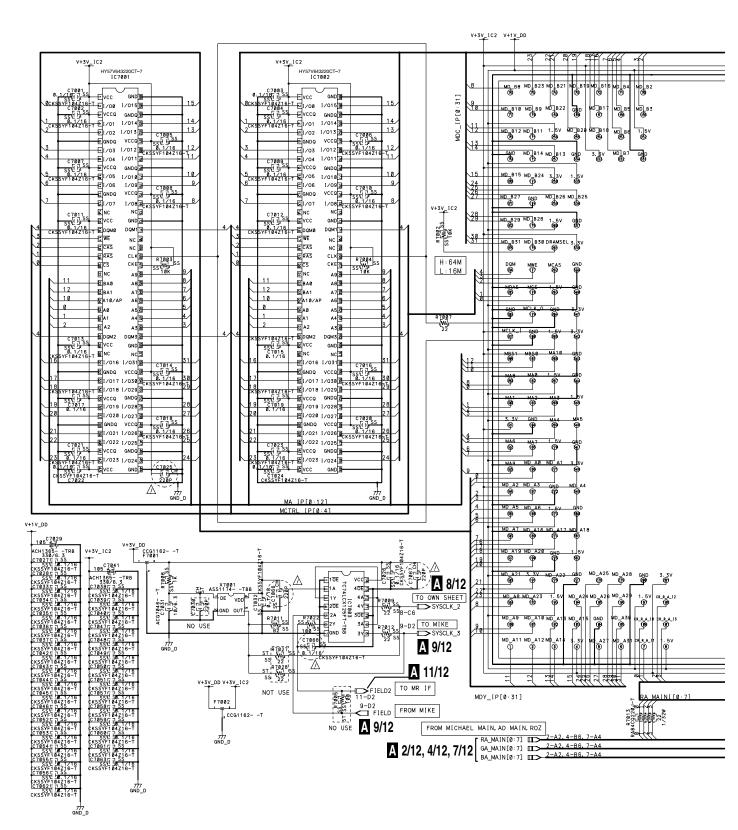
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#### **3.10 MR MAIN BOARD ASSY (8/12)**

# A 8/12 MR MAIN BOARD ASSY (AWZ6926) • CELIA BLOCK



A 8/12

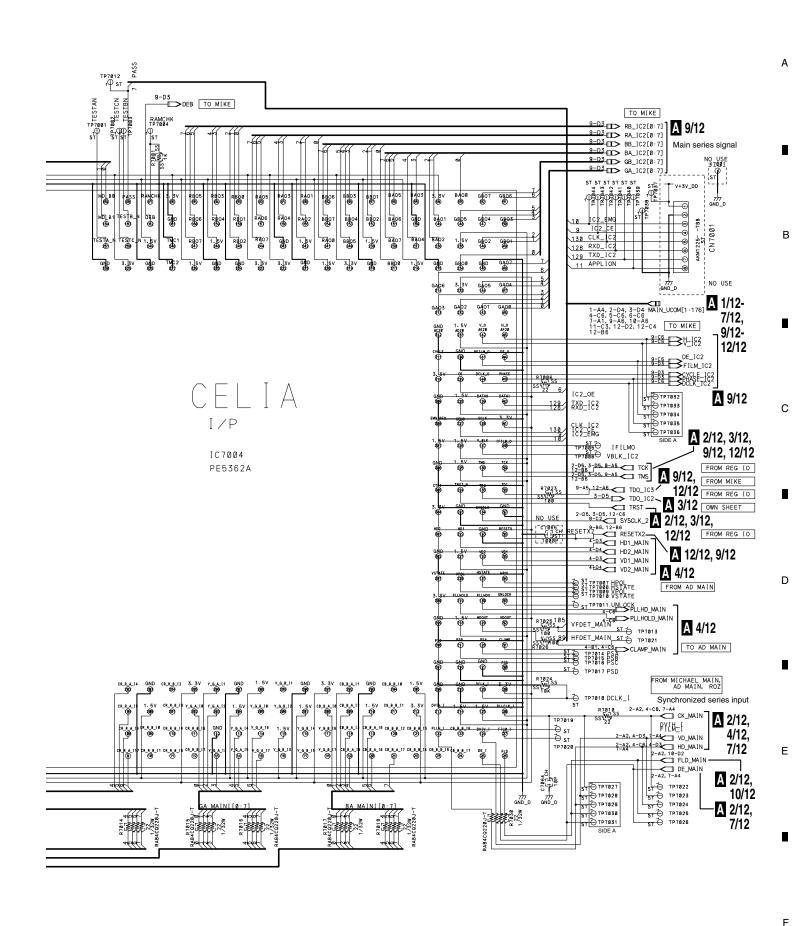
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A 8/12

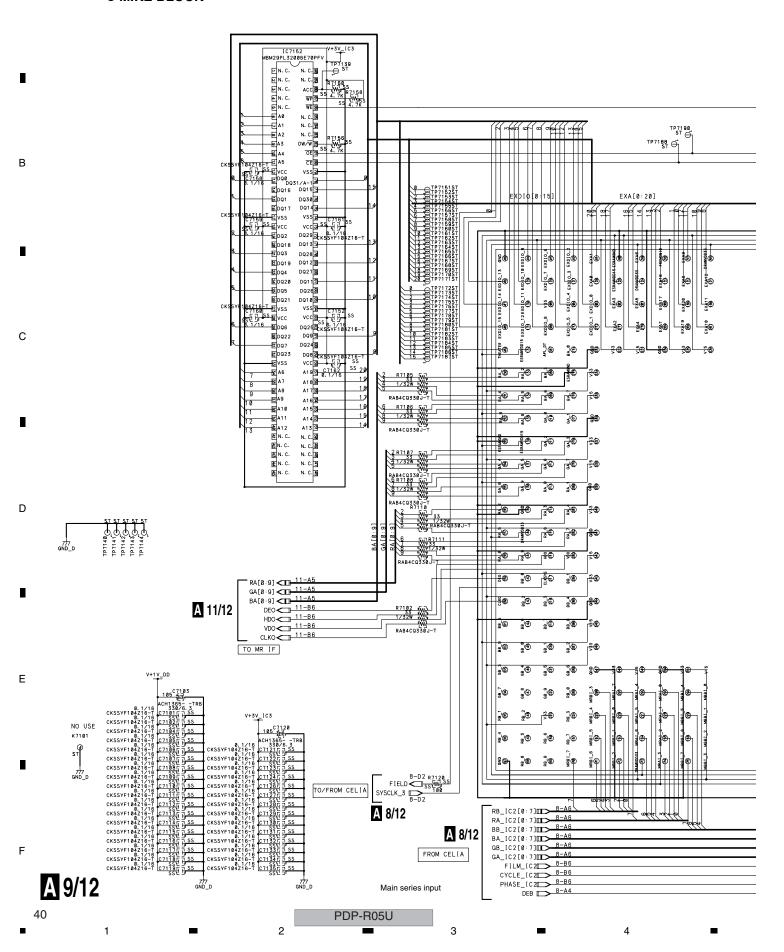
39

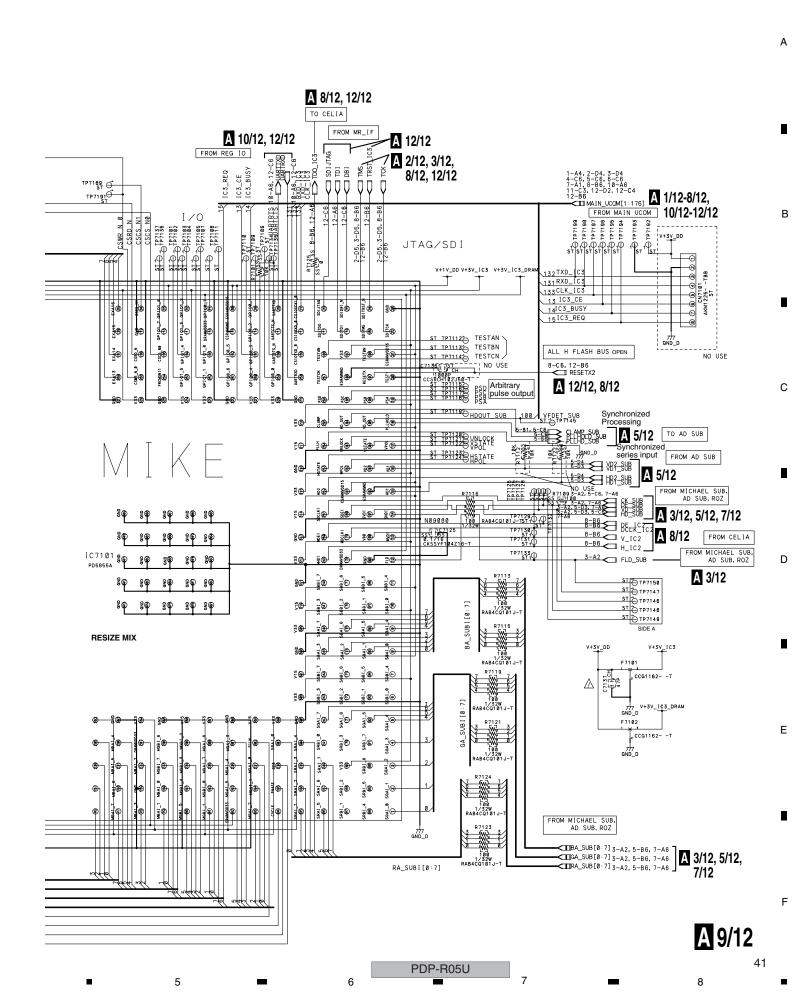
PDP-R05U

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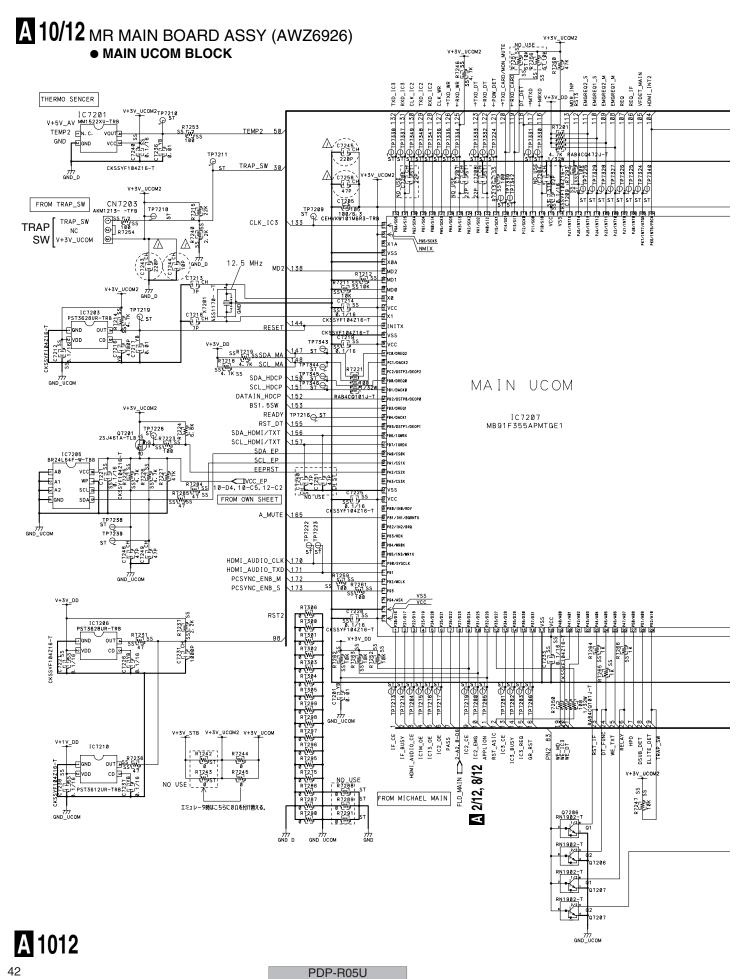
### **3.11 MR MAIN BOARD ASSY (9/12)**

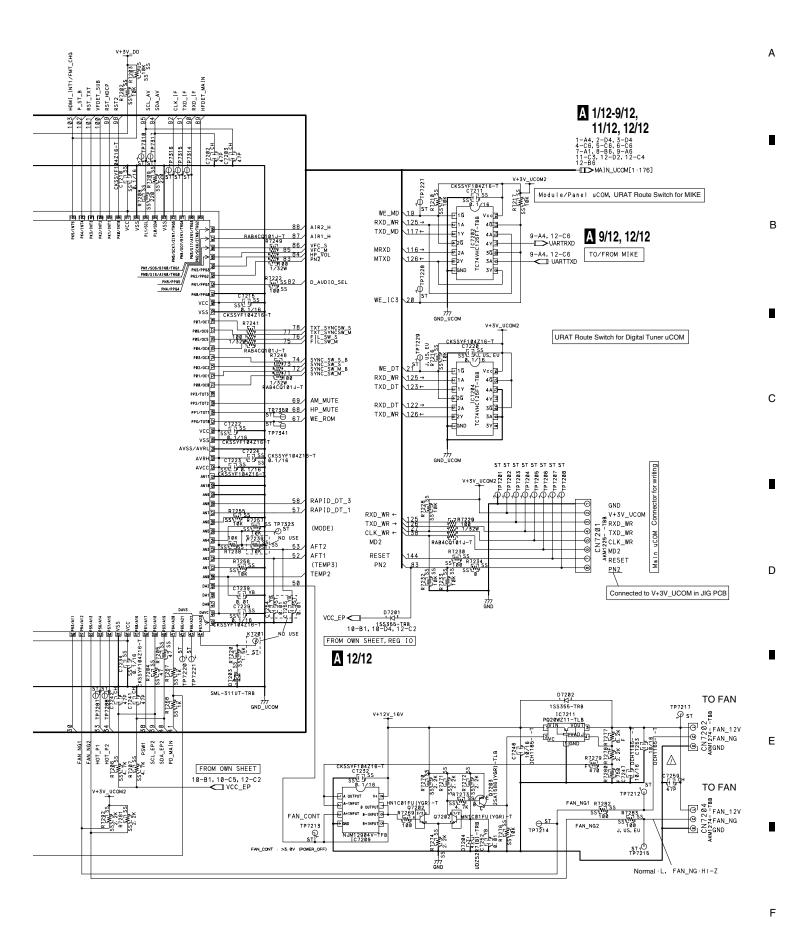
# A 9/12 MR MAIN BOARD ASSY (AWZ6926) • MIKE BLOCK





#### **3.12 MR MAIN BOARD ASSY (10/12)**



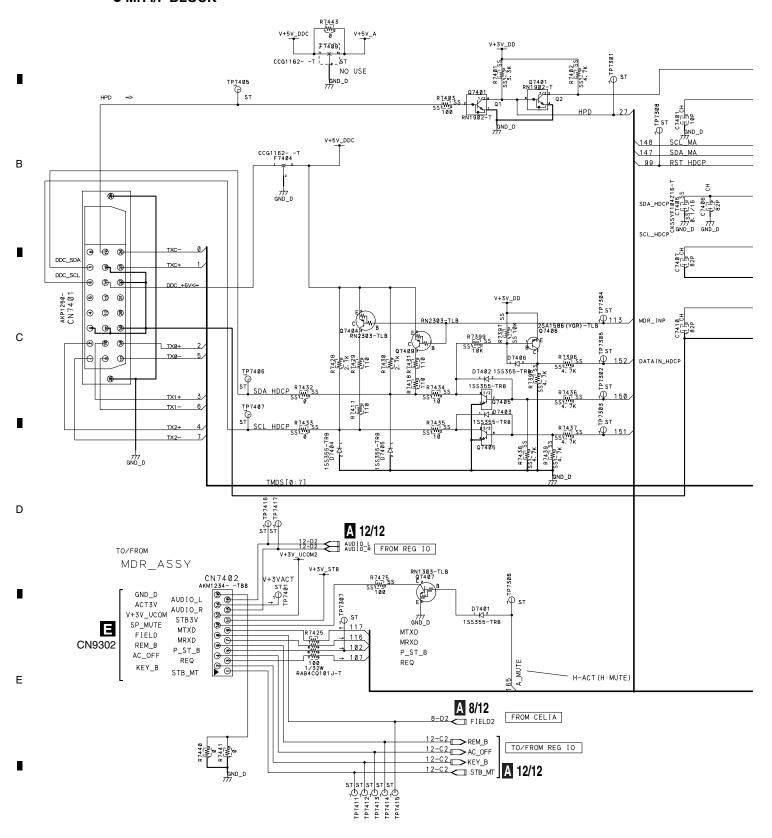


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PDP-R05U

### **3.13 MR MAIN BOARD ASSY (11/12)**

# A 11/12 MR MAIN BOARD ASSY (AWZ6926) • MR I/F BLOCK

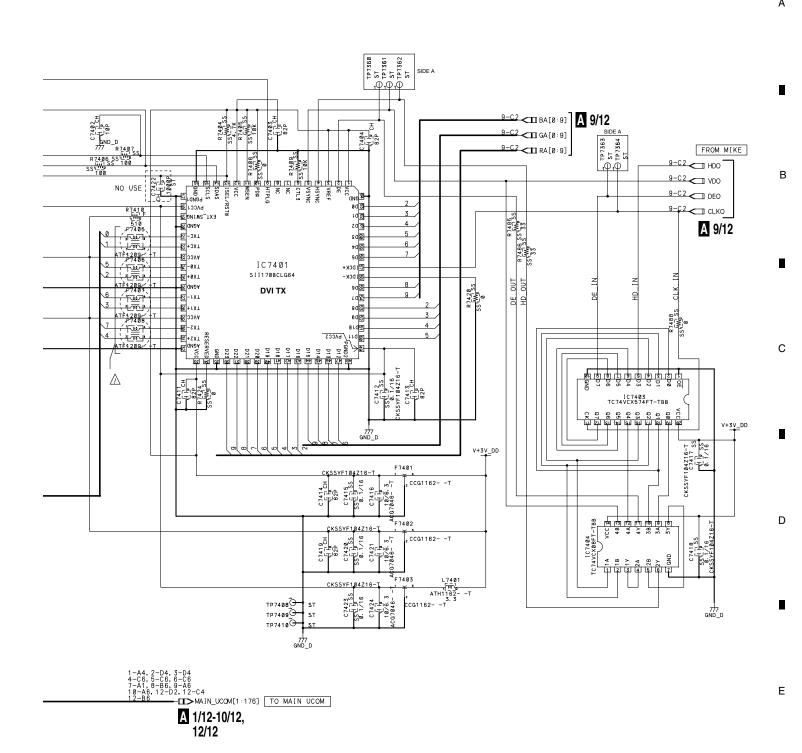


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A 11/12

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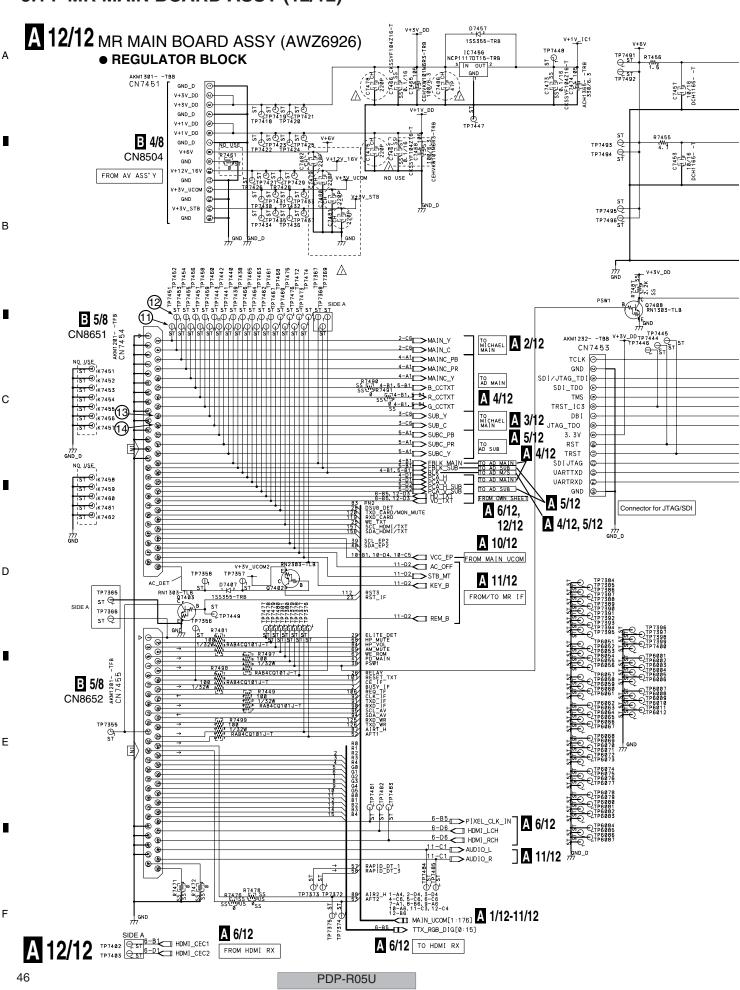
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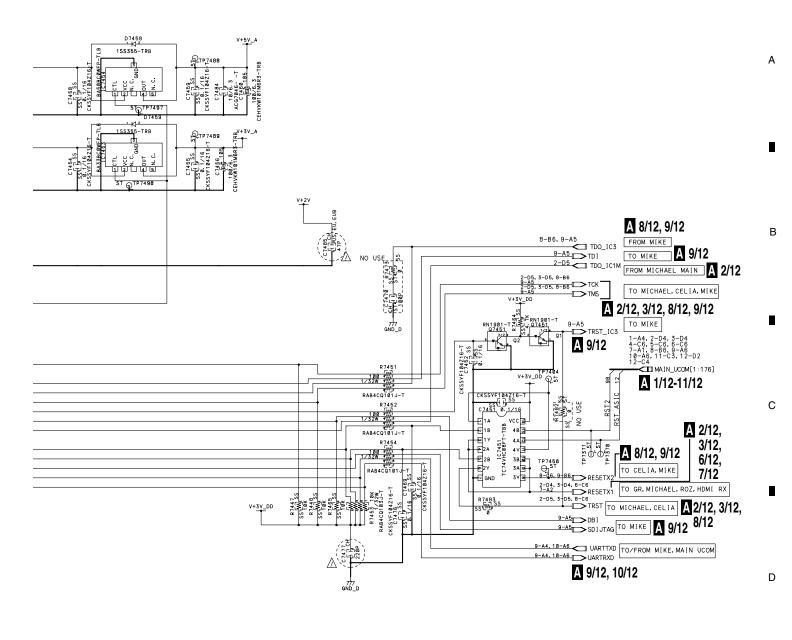


A 11/12

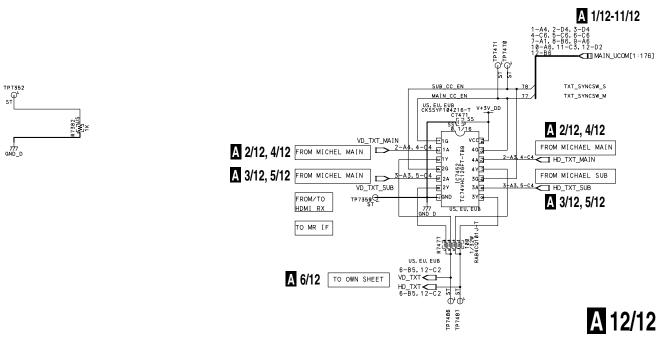
PDP-R05U

#### **3.14 MR MAIN BOARD ASSY (12/12)**





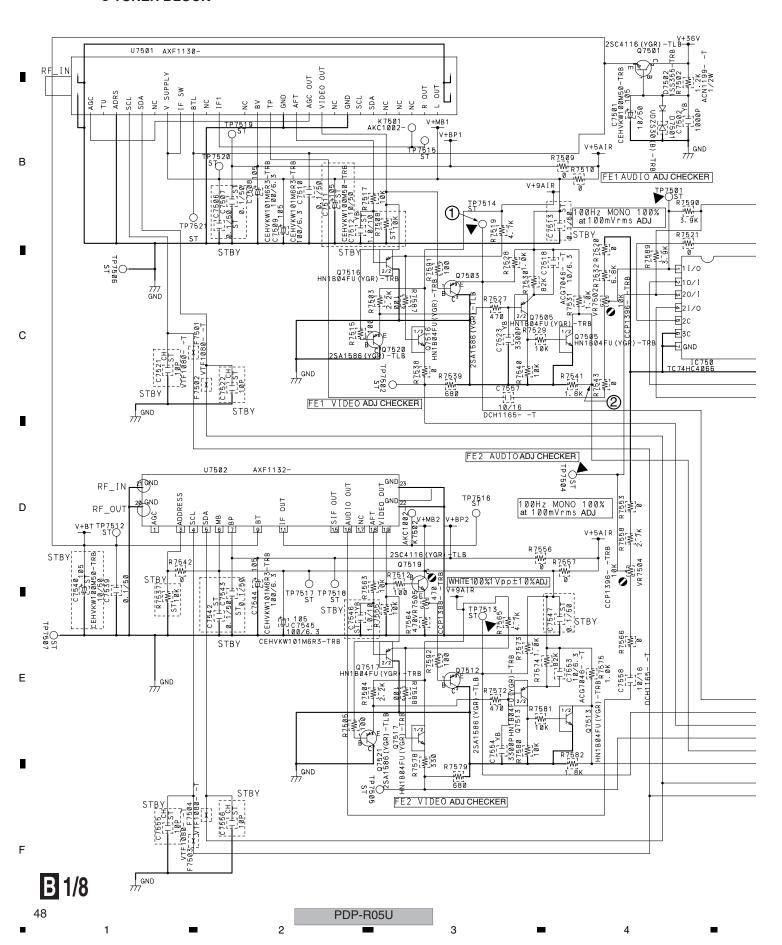
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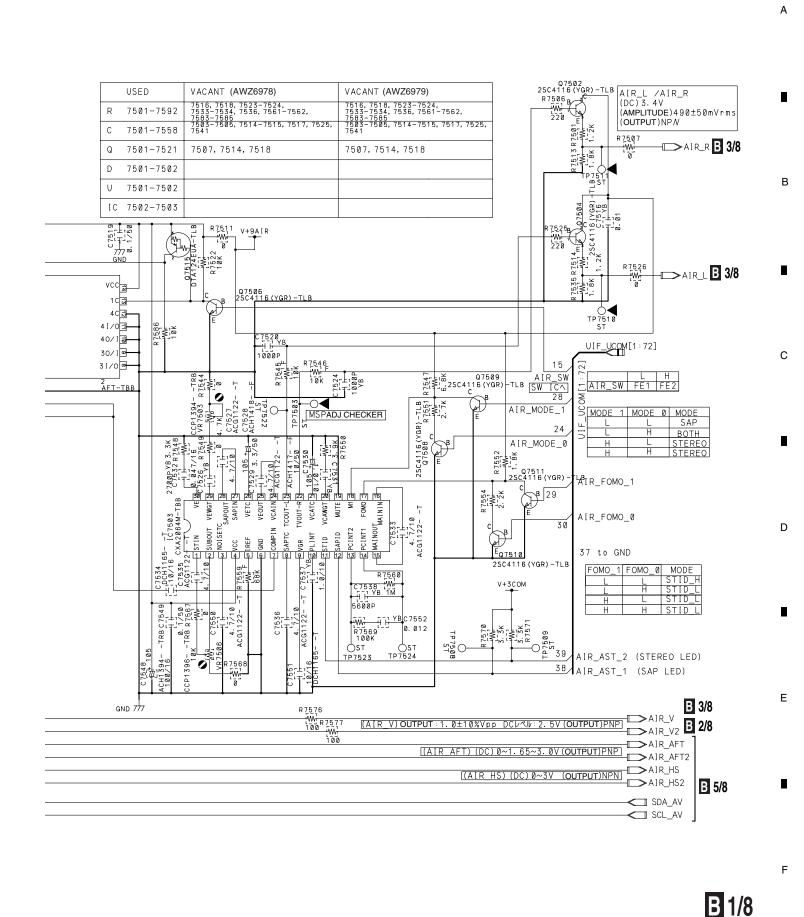


#### 3.15 AV BOARD ASSY (1/8)

B 1/8 AV BOARD ASSY (PDP-R05U : AWZ6978) (PRO-R05U : AWZ6979)

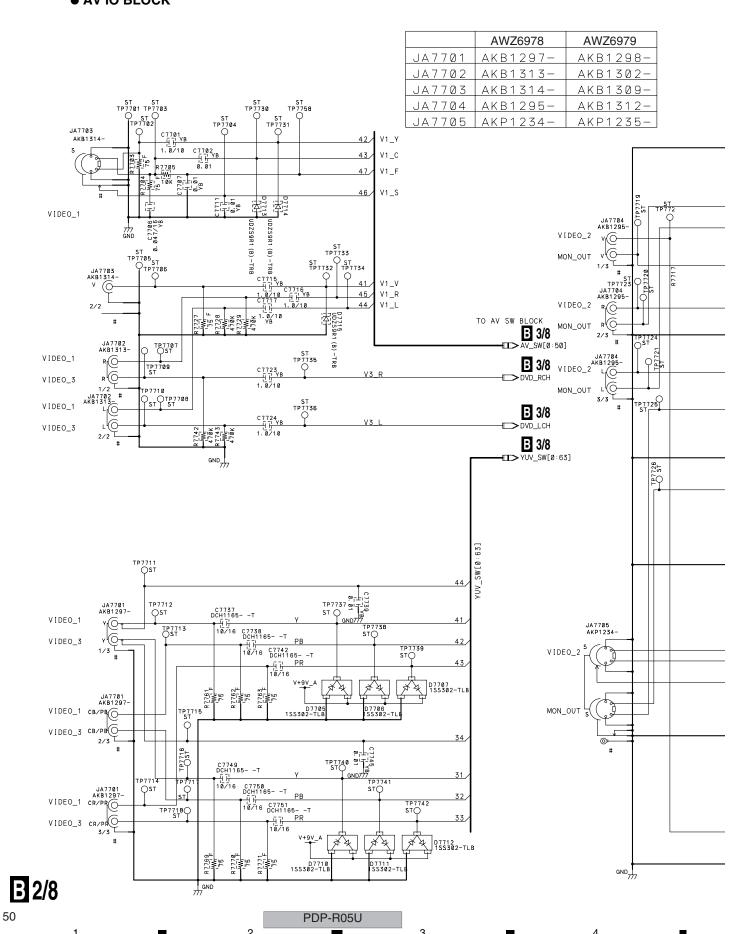
• TUNER BLOCK

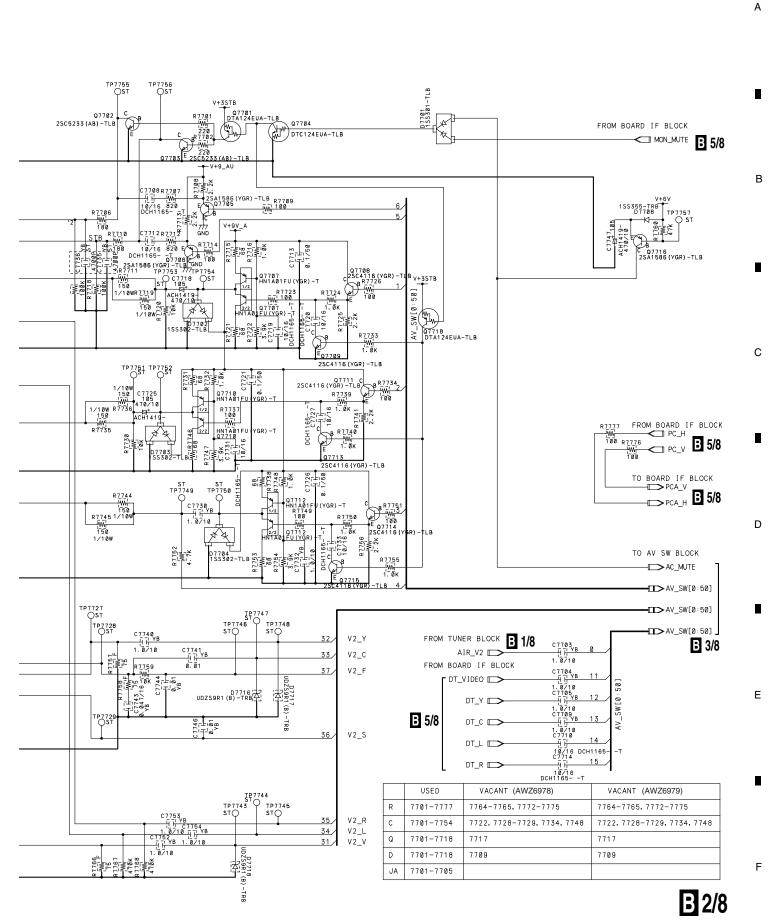




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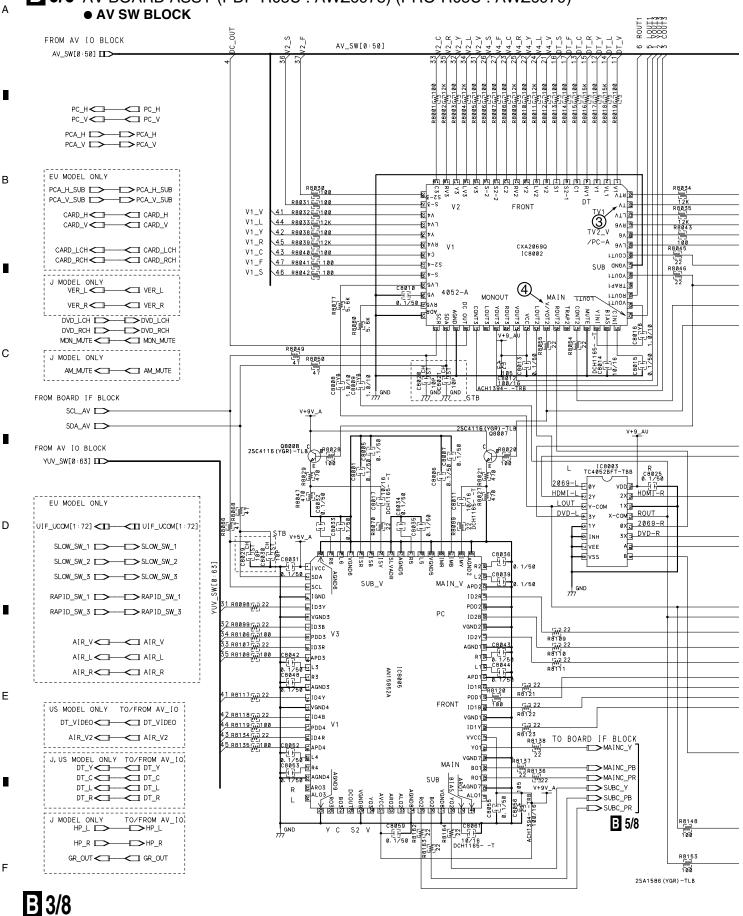
Ε

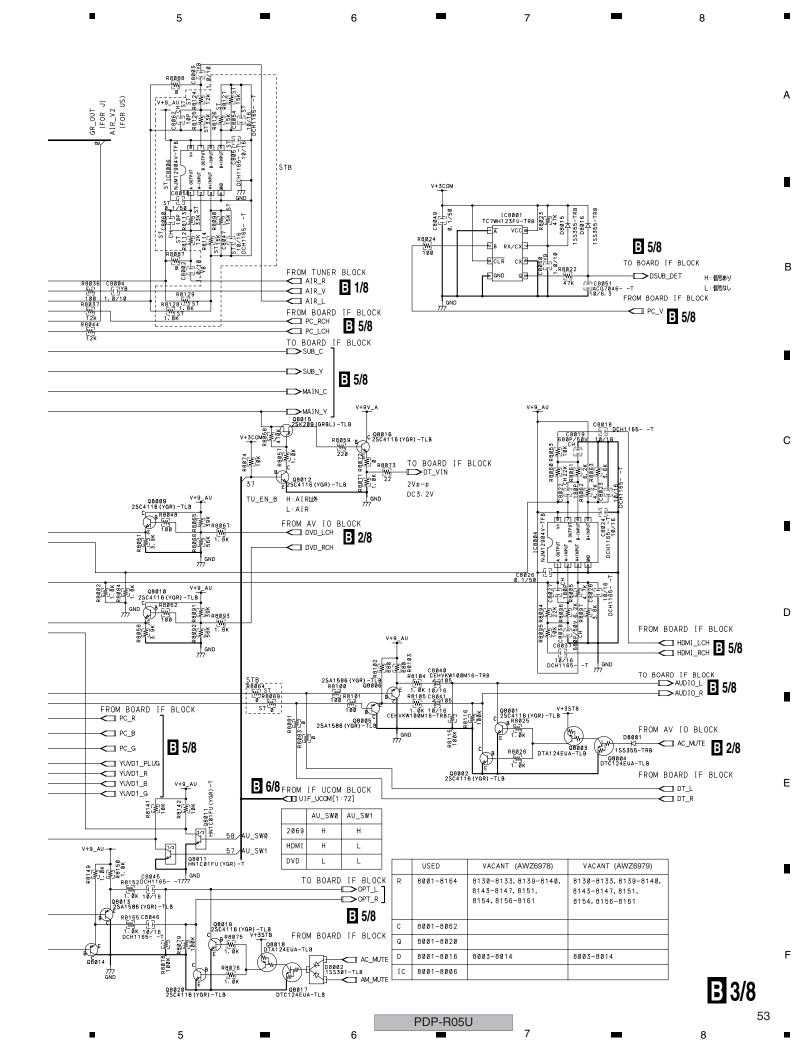


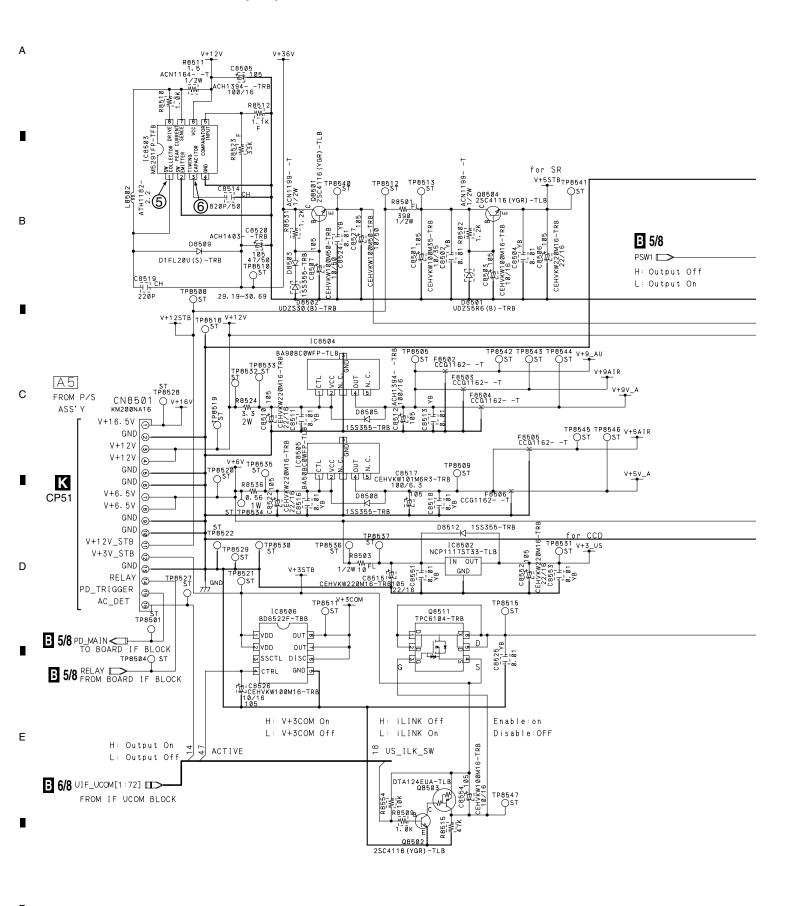


PDP-R05U

**B** 3/8 AV BOARD ASSY (PDP-R05U : AWZ6978) (PRO-R05U : AWZ6979)



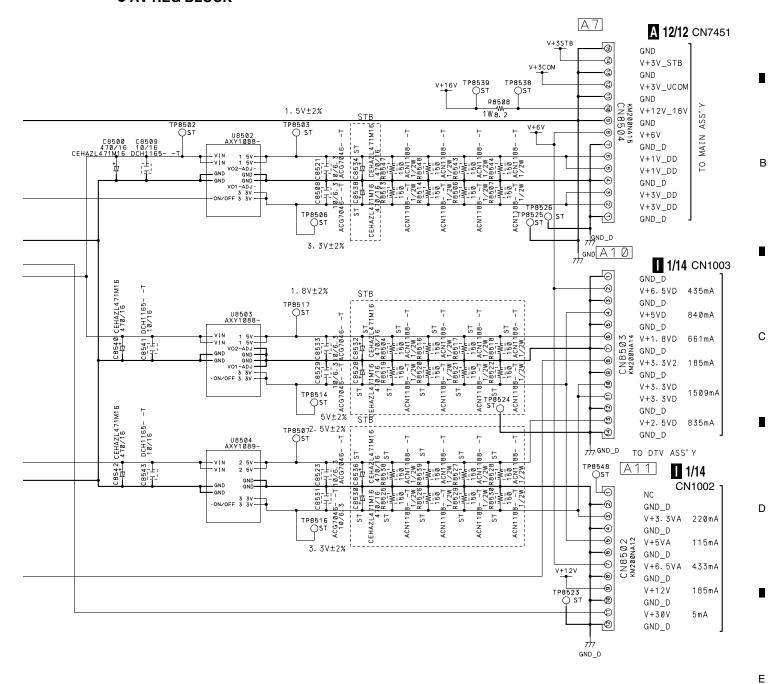




B 4/8

### **B** 4/8 AV BOARD ASSY (PDP-R05U : AWZ6978) (PRO-R05U : AWZ6979) • AV REG BLOCK

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	USED	VACANT (AWZ6978)	VACANT (AWZ6979)
R	8501-8554	8505, 8532-8535, 8537, 8540-8542, 8545-8546, 8549-8553	8505, 8532-8535, 8537, 8540-8542, 8545-8546, 8549-8553
С	8500-8554	8535, 8537, 8539, 8544-8550	8535, 8537, 8539, 8544-8550
Q	8501-8511	8505-8510	8505-8510
D	8501-8512	8504, 8506-8507, 8510-8511	8504, 8506-8507, 8510-8511
U	8502-8504		
I C	8502-8506		
CN	8501-8504		

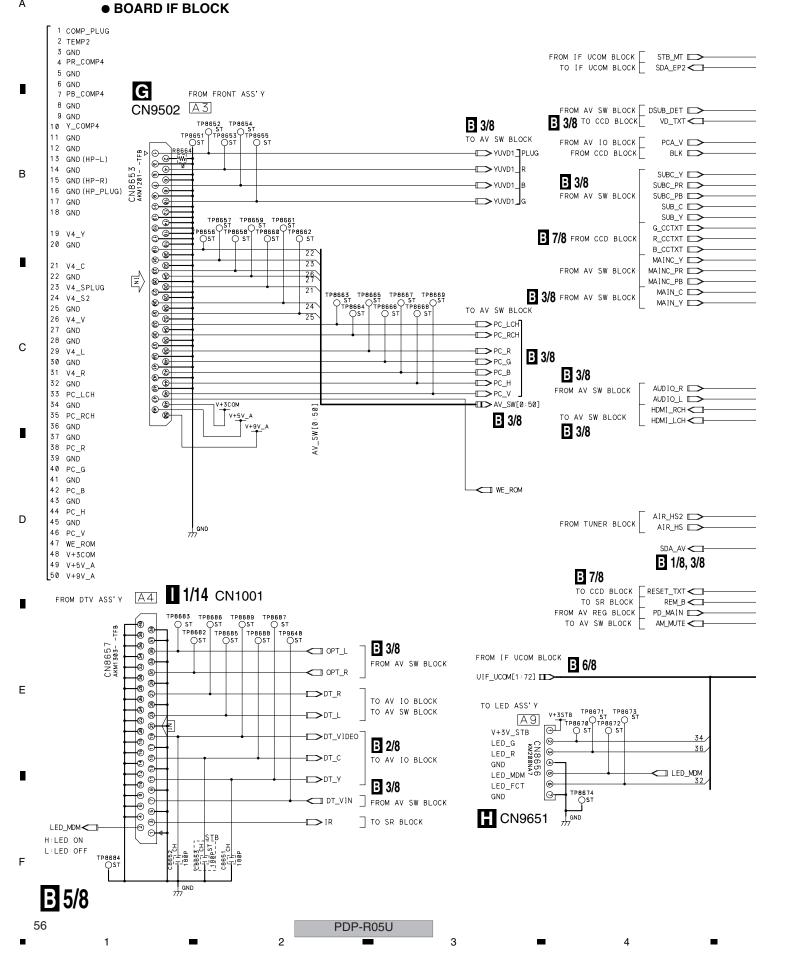
**B** 4/8

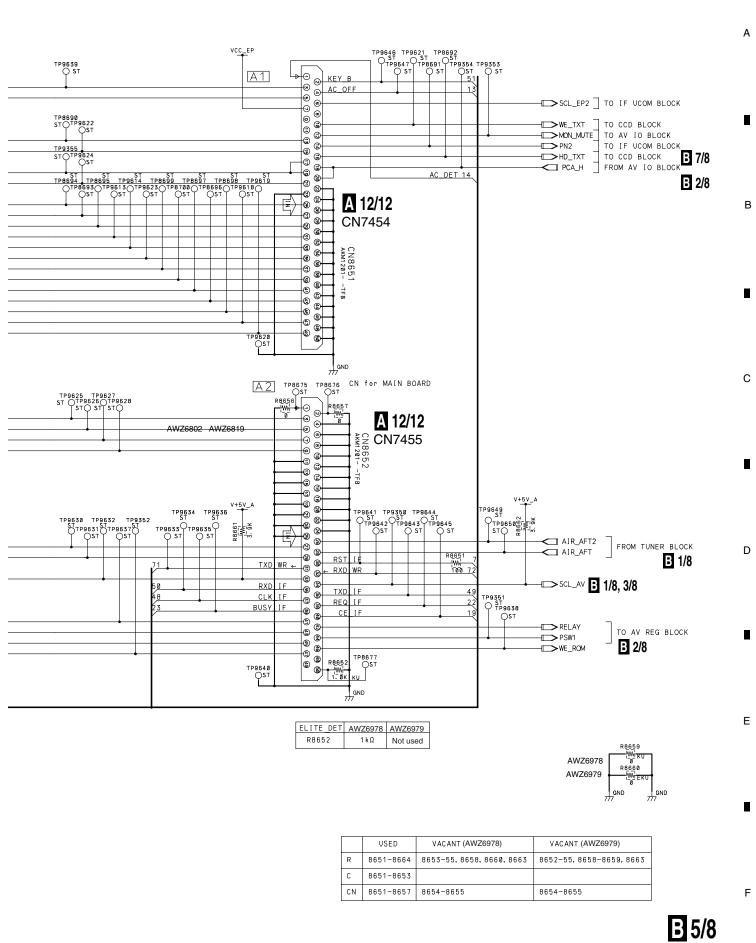
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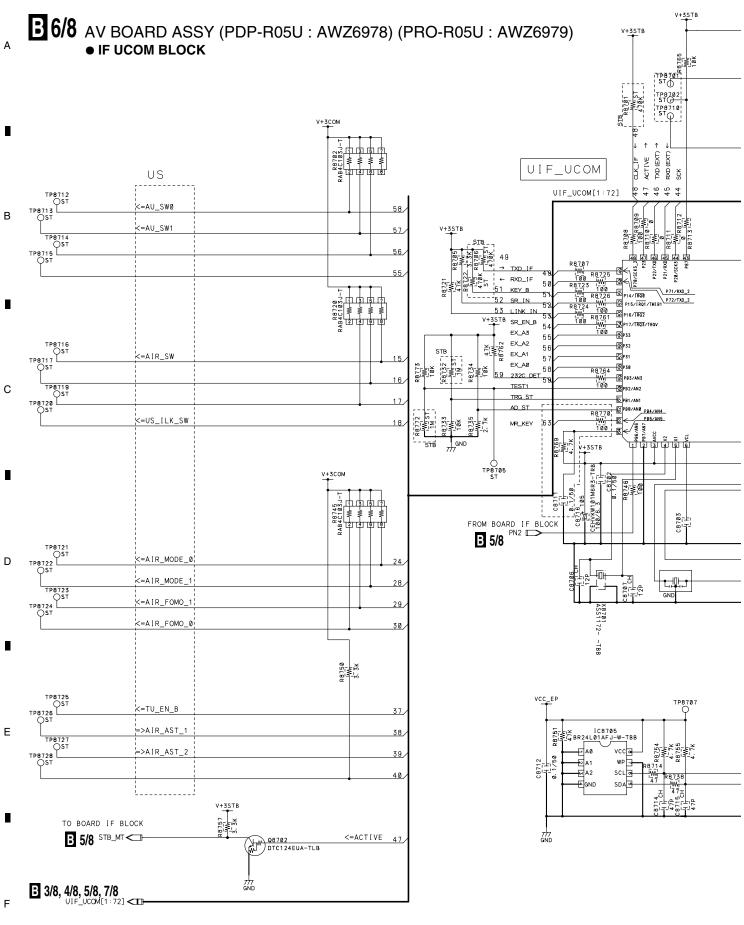
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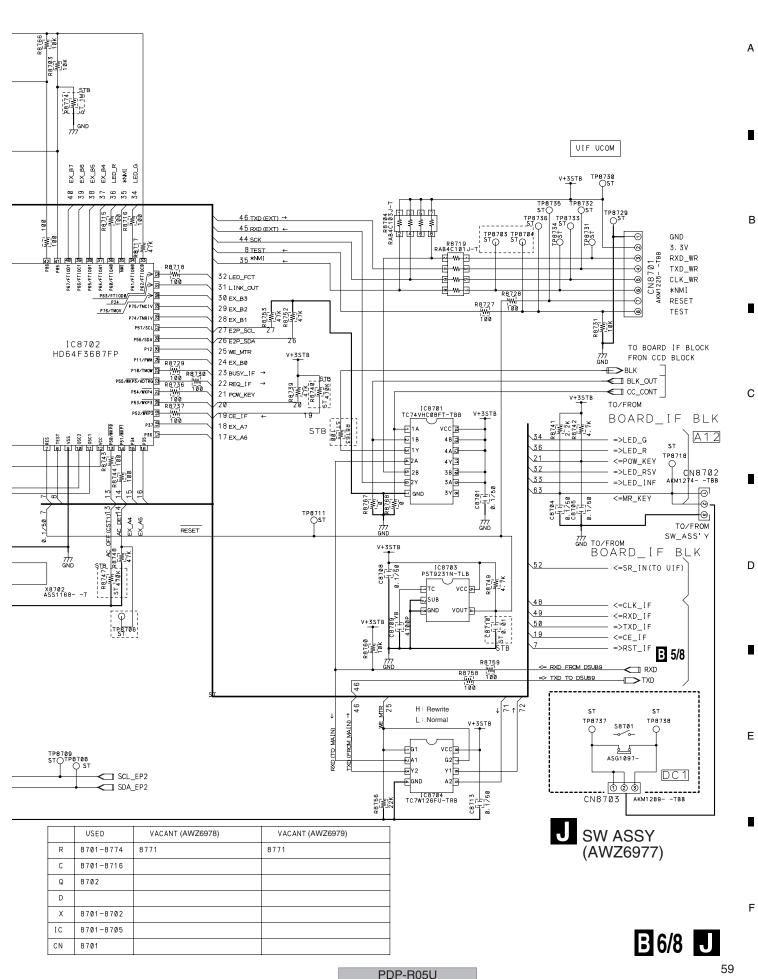


PDP-R05U



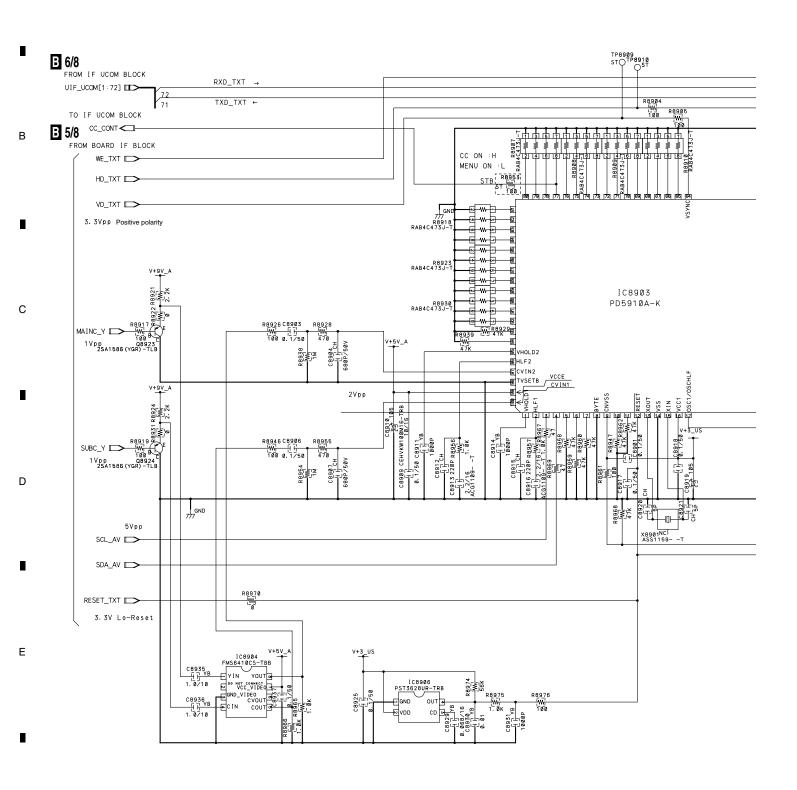
**B** 6/8

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#### 3.21 AV BOARD ASSY (7/8)

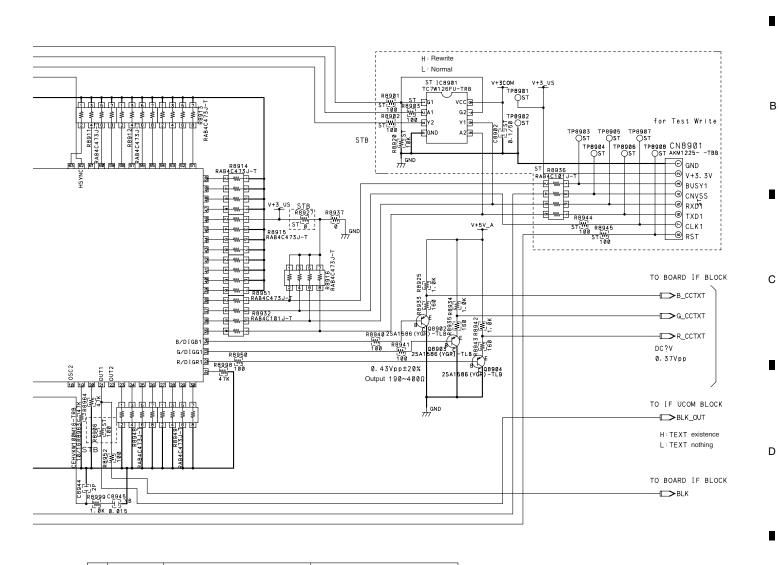
**B 7/8** AV BOARD ASSY (PDP-R05U: AWZ6978) (PRO-R05U: AWZ6979)
• CCD BLOCK



**B** 7/8

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	USED	VACANT (AWZ6978)	VACANT (AWZ6979)
R	8901-8976	8971-8973	8971-8973
С	8901-8945	8905, 8908, 8922-8924, 8926-8928, 8932-8934, 8938-8943	8905, 8908, 8922-8924, 8926-8928, 8932-8934, 8938-8943
Q	8902-8924	8905-8922	8905-8922
D			
Х	8901		
10	8901-8906	8902, 8905	8902, 8905
CN	8901		

**B** 7/8

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PDP-R05U

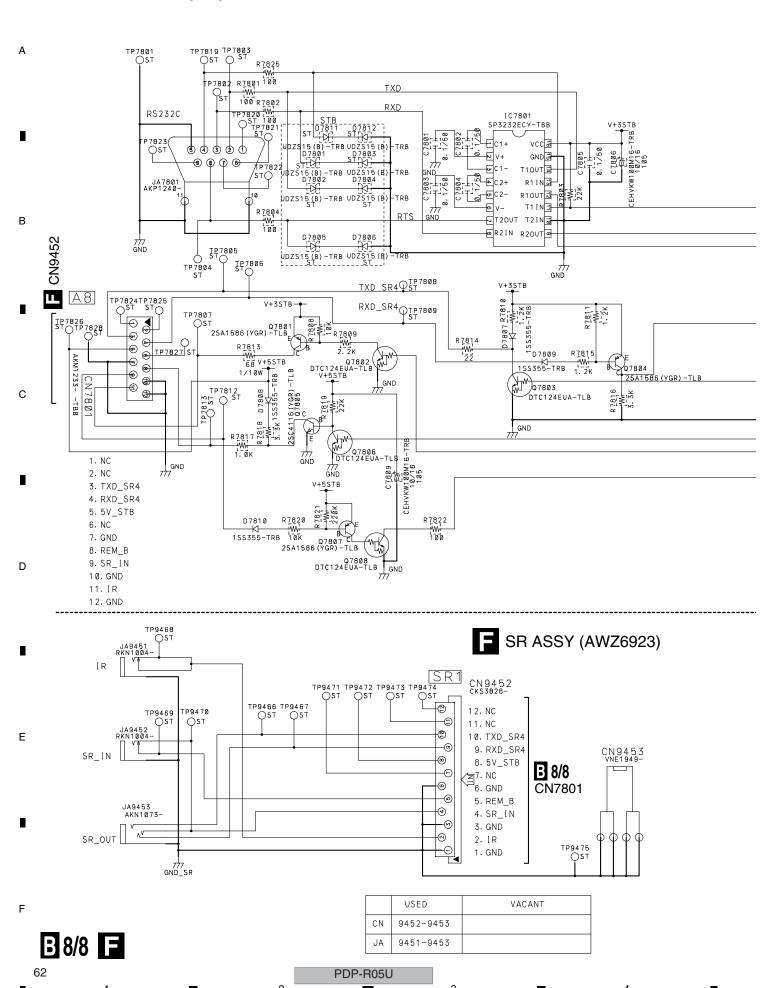
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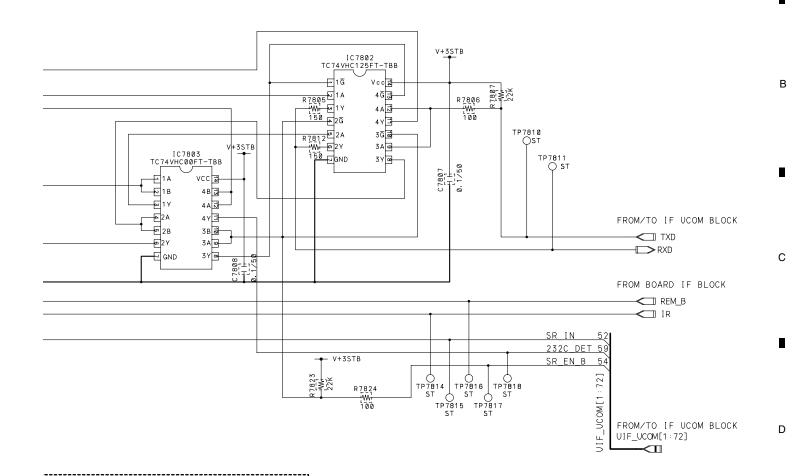
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### 3.22 AV BOARD (8/8) and SR ASSYS



### **B** 8/8 AV BOARD ASSY (PDP-R05U : AWZ6978) (PRO-R05U : AWZ6979)

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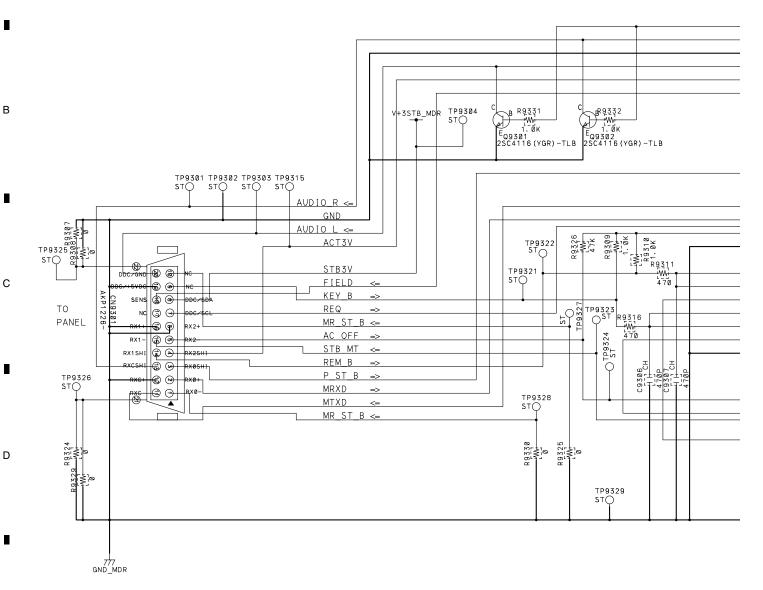


	USED	VACANT
R	7801-7826	
С	7801-7809	
Q	7801-7808	
D	7801-7812	
IC	7801-7803	
CN	7801	
JA	7801	

**B** 8/8

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	USED	VACANT (AWZ6922)
R	9301-9330	9320
С	9301-9308	
Q	9301-9303	
D		
IC	9301-9302	
CN	9301-9302	

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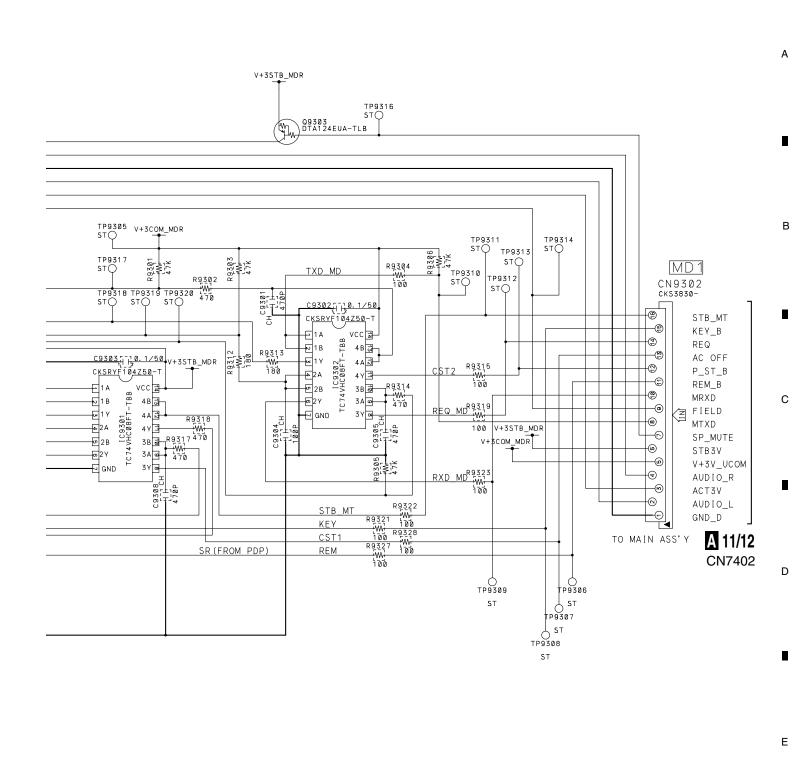
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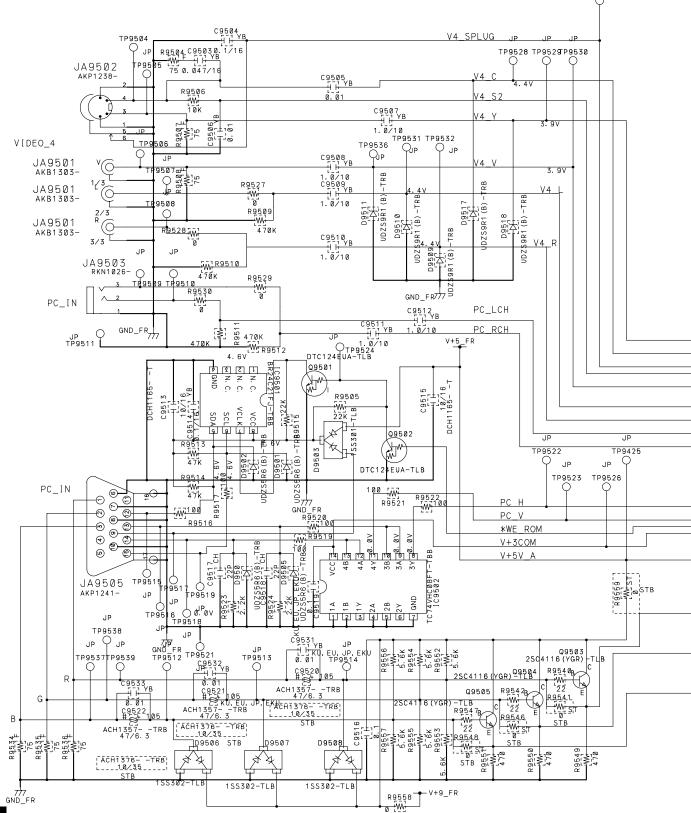
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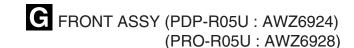


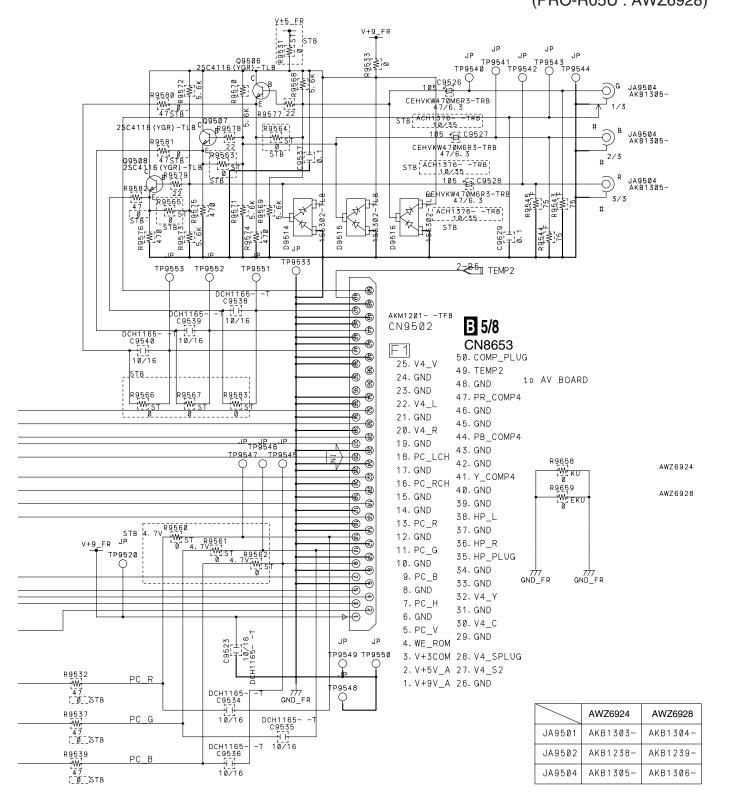
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ITEM	USED	VACANT
R	9501-9583	9531, 9541, 9548, 9559-9567, 9538
	9651, 9658-9661	
С	9501-9540	
_	0504 0500	
Q	9501-9508	
D	9501-9518	
1 C	9501-9502	
CN	9502-9503	
JA	9501-9505	

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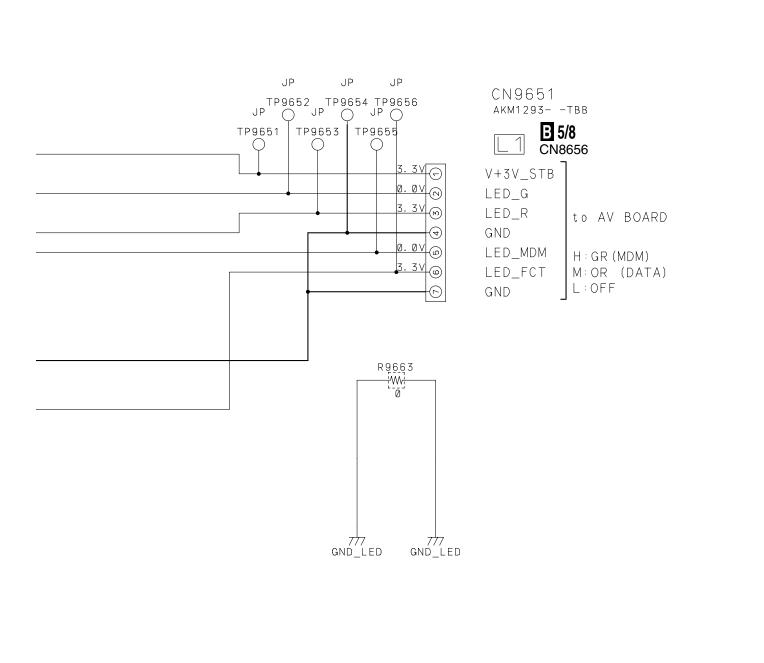
TP9658 DTA124EUA-TLB JPTP9657MDM\_ D96554 BN5305-1b BN5305-1 BN5305-Q9651<sub>JP</sub> Q9653 HN1C01FU (YGR XT 107P9659 TP9661 Q9653 HN1C01FU (YGR) -T 2/2 R9665 William 4.7K 7/7 GND\_LED D9652 -310DT-TR D9653 R9657 1.00K R9656 120 120 S FCT OFF ON 7/7 GND\_LED

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ITEM	USED	VACANT
R	9652-9671	9658-9661
С	9651, 9652	
Q	9651-9654	
D	9652-9655	
IC		
CN	9651	

PDP-R05U

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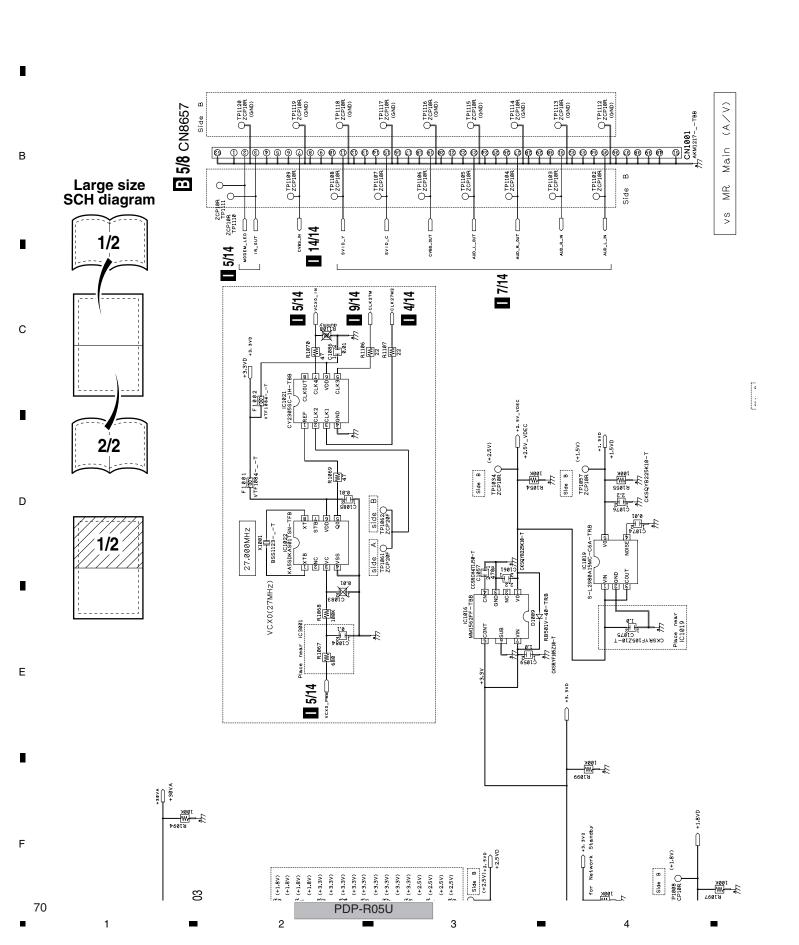
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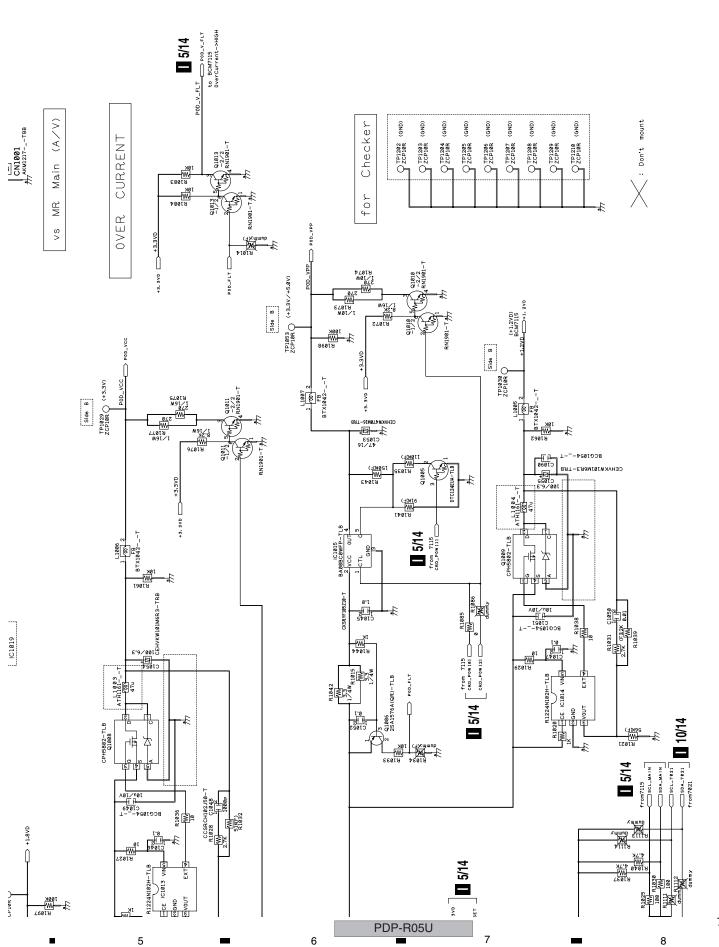
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PDP-R05U

# 3.26 TUNER BOARD ASSY (1/14)

1/14 TUNER BOARD ASSY (AWE1300)





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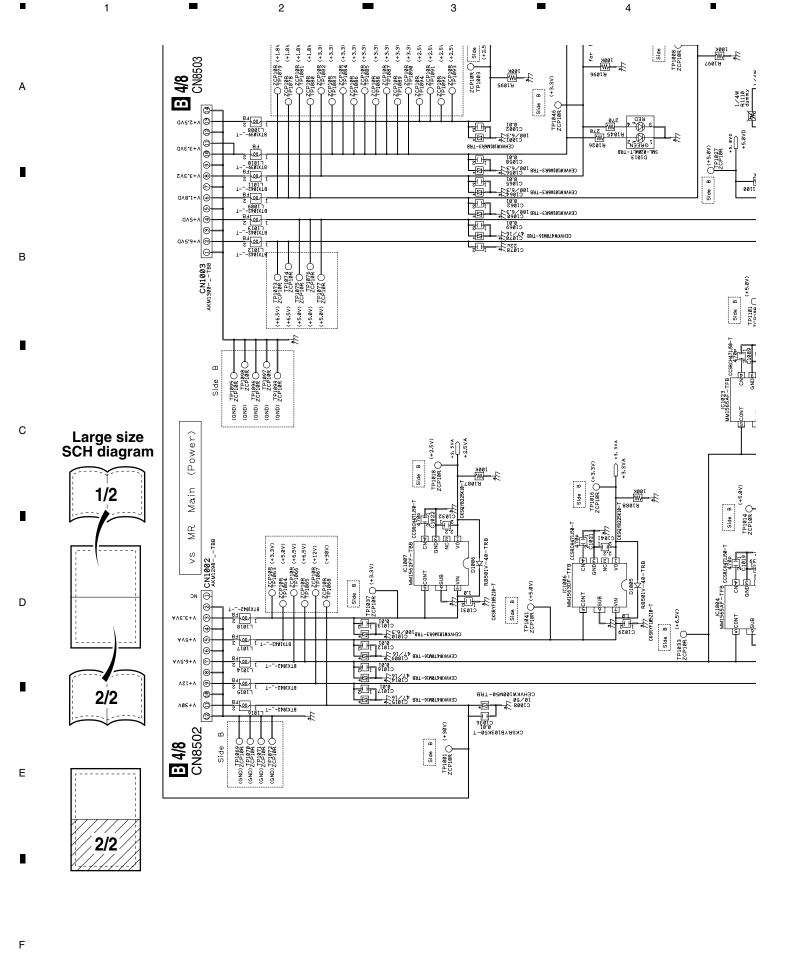
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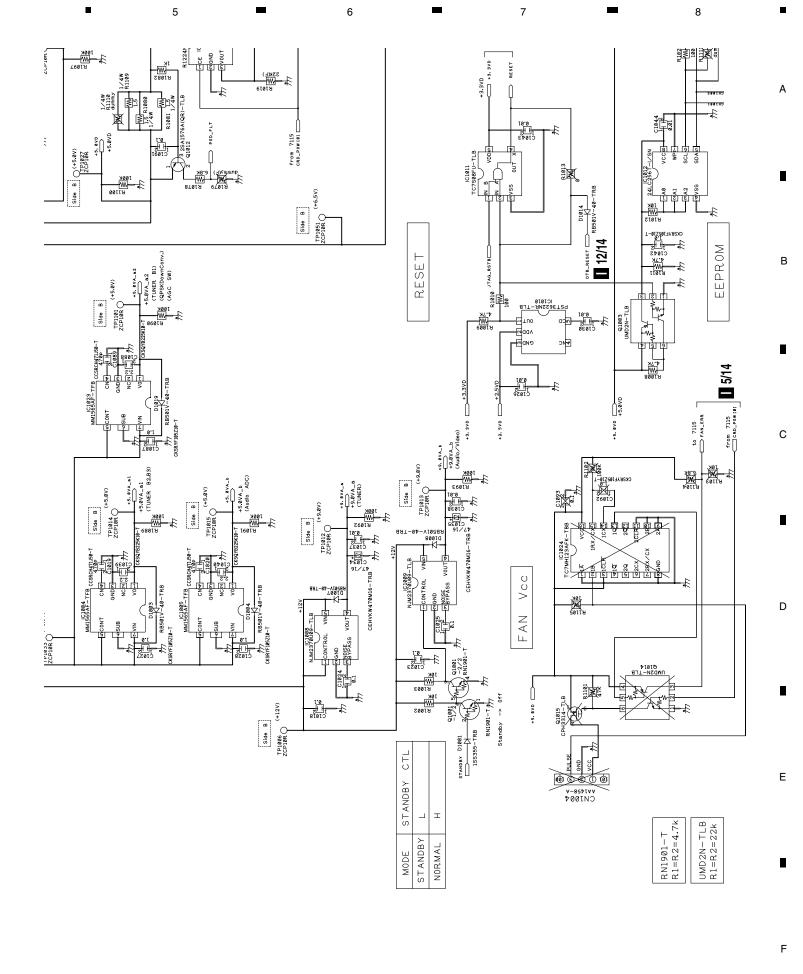
71



**1/14** 

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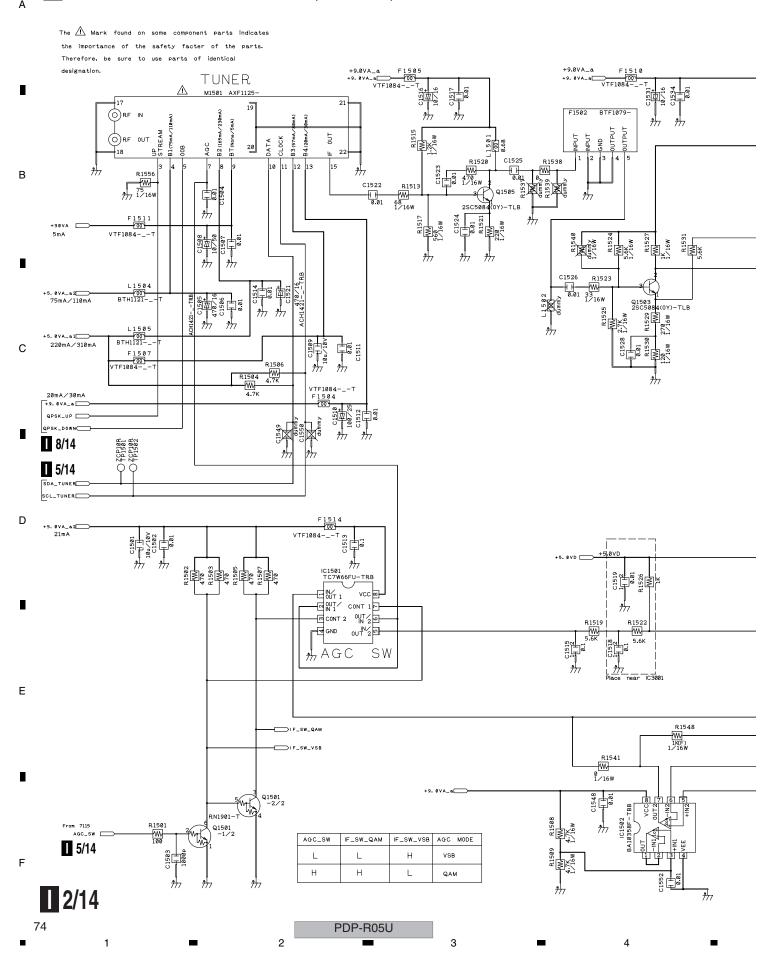
PDP-R05U

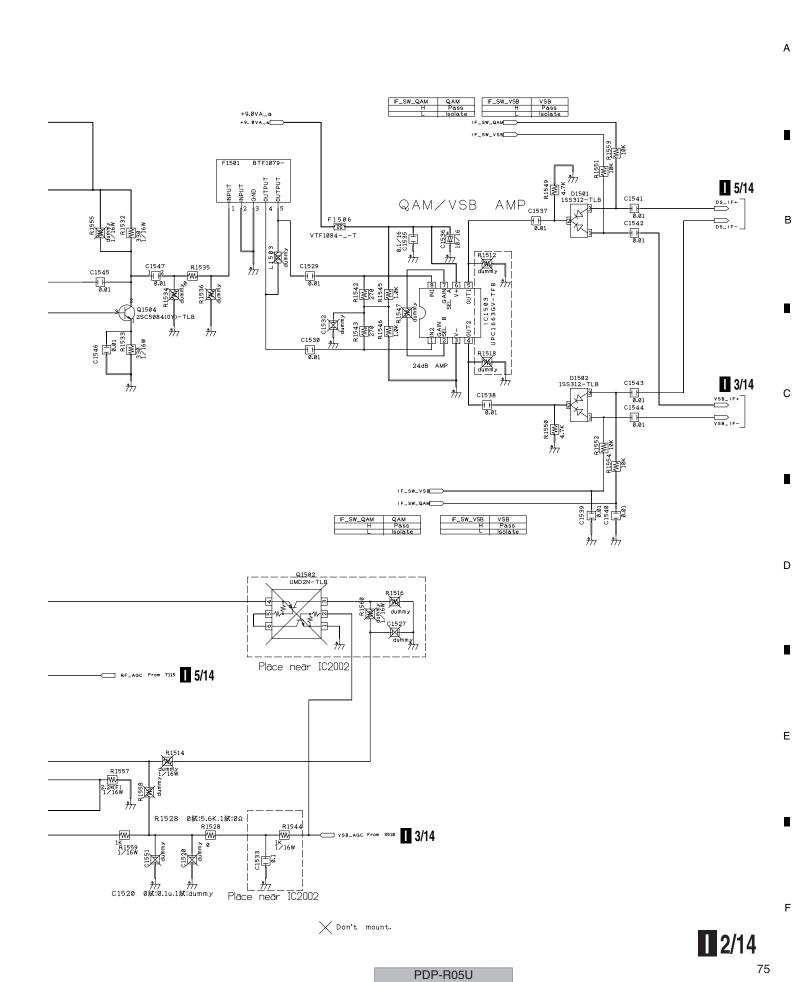


**I** 1/14 

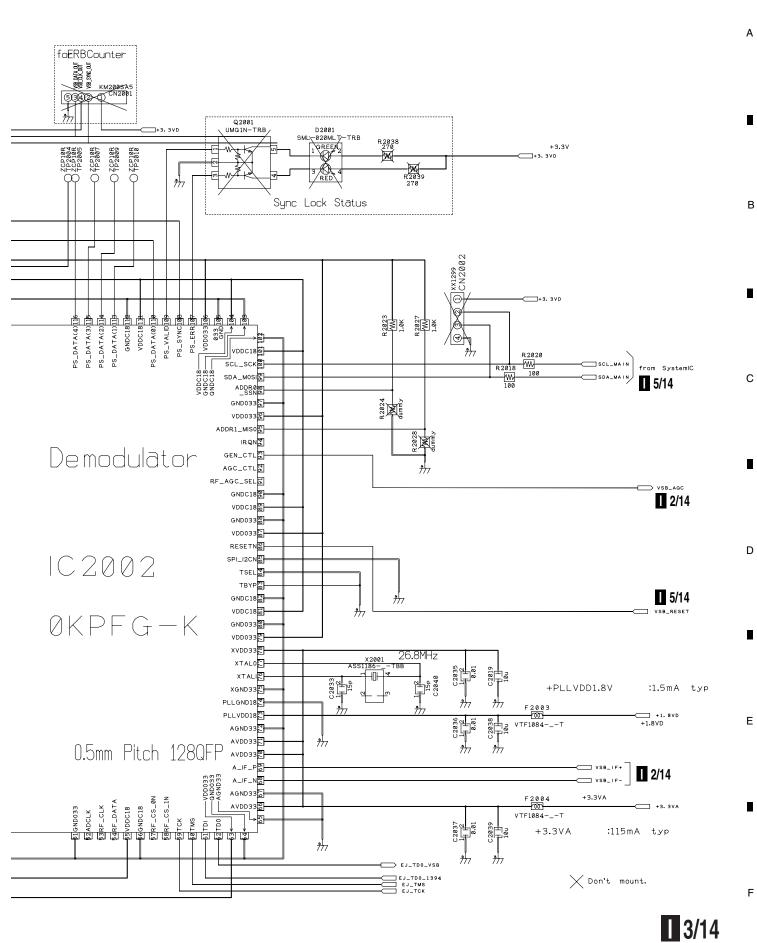
#### **3.27 TUNER BOARD ASSY (2/14)**

## 2/14 DTV TUNER BOARD ASSY (AWE1300)

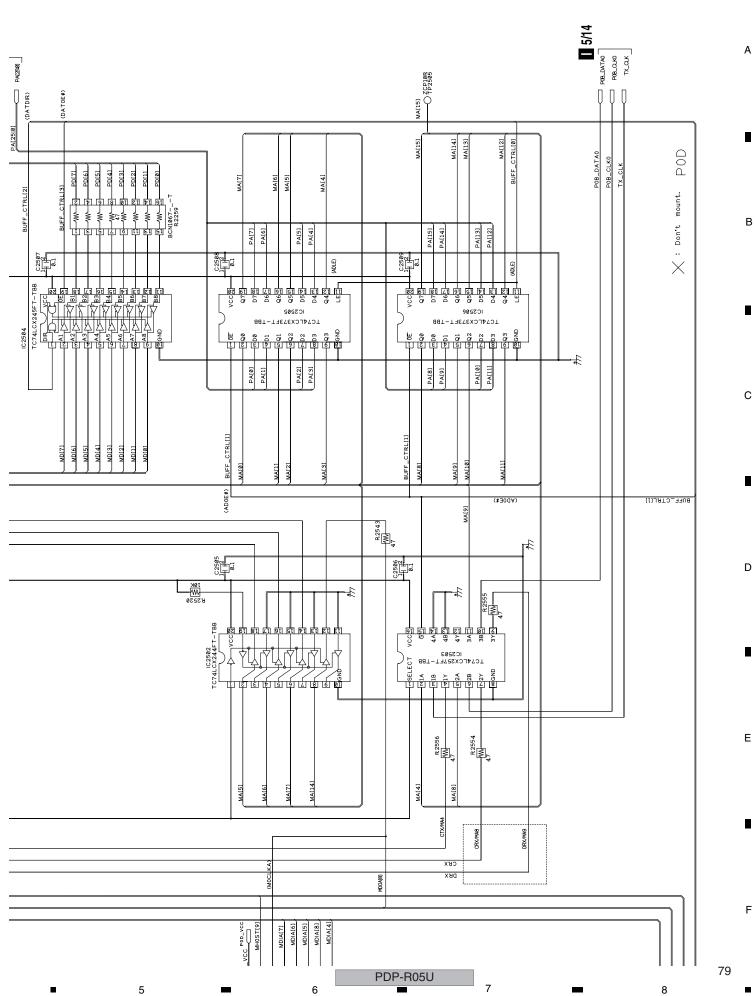




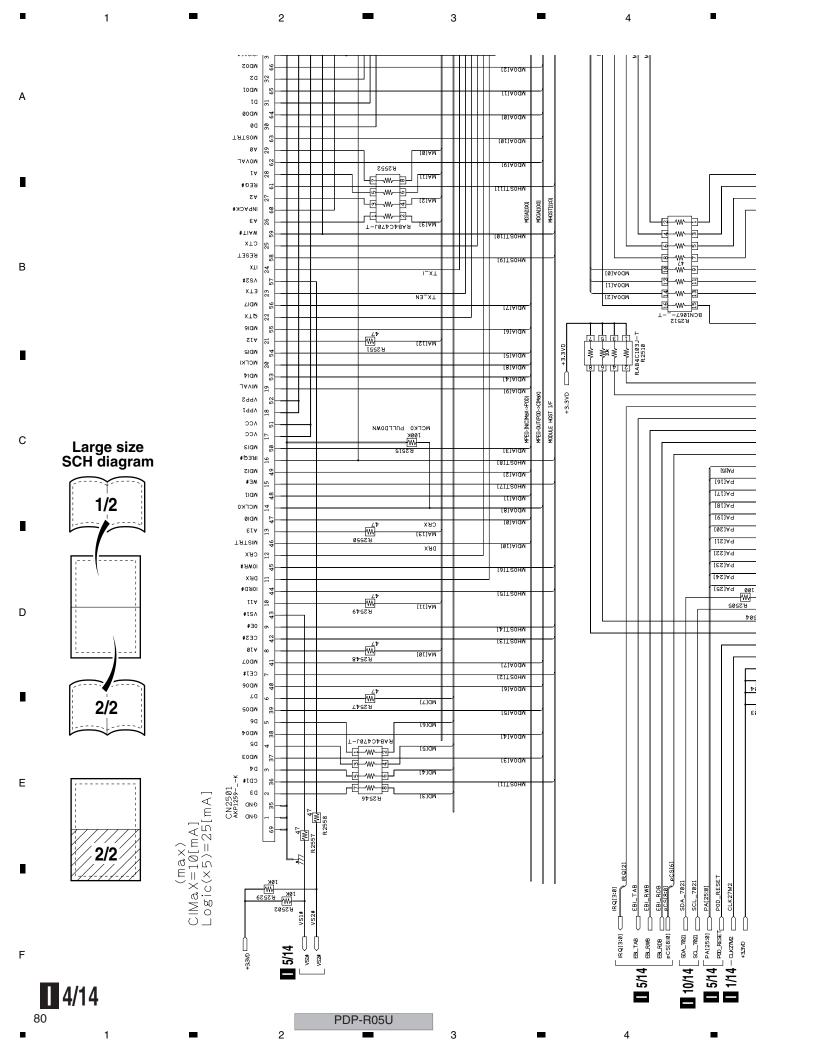
В

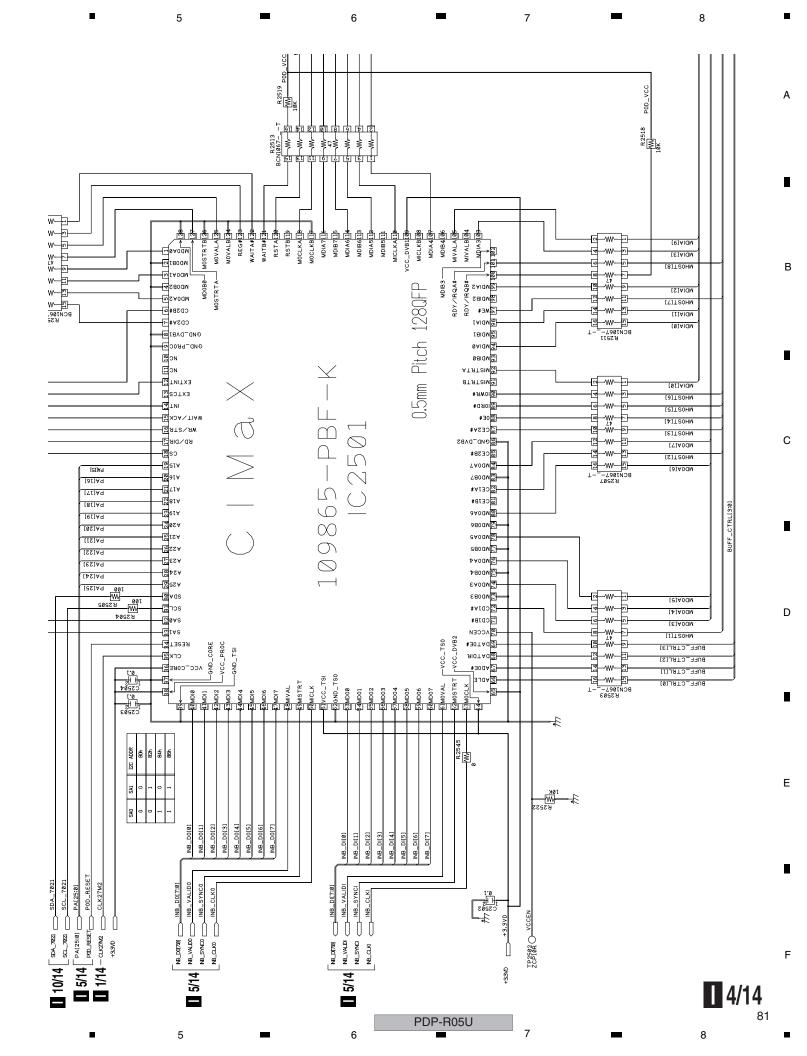


## 3 **3.29 TUNER BOARD ASSY (4/14)** 4/14 TUNER BOARD ASSY (AWE1300) 5/14 5/14 552 1 +3.3VD PD(1500) PA(2500) PD[15:0] PA[25:0] В Large size SCH diagram 1/2 2/2 D 1/2 MD[7:0] Е INPACK# PULLUP WAIT# PULLUP O ZCP10R -WPIST O ZCP10R MDEEL S -w-GИD СИD MD0A[9] MH0ST[11] CDS# #9TSI0I MDOS PDP-R05U 78 3



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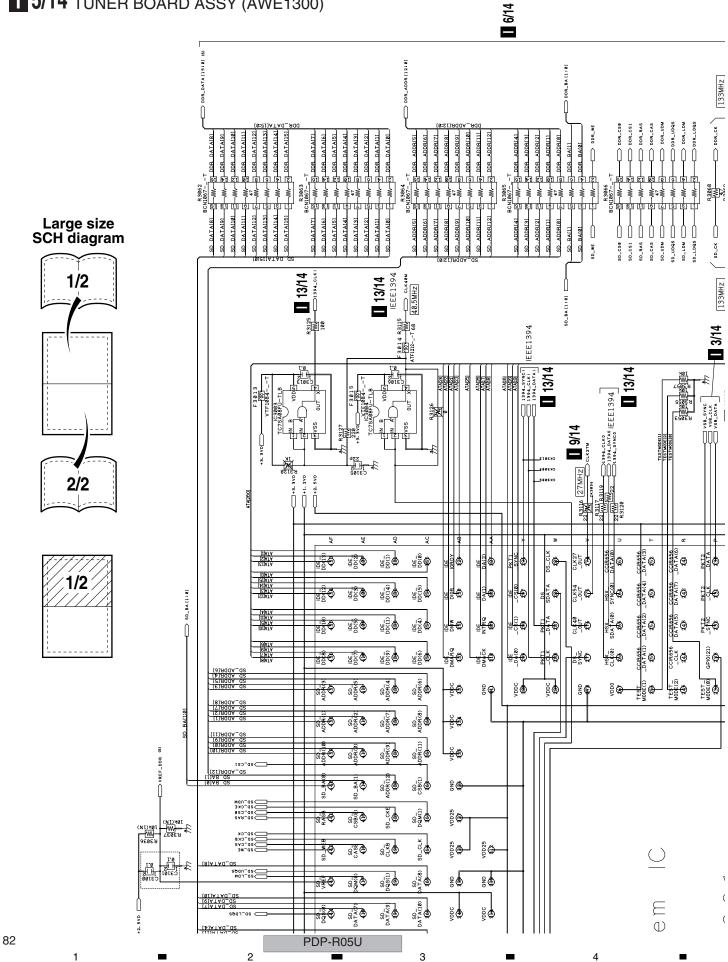


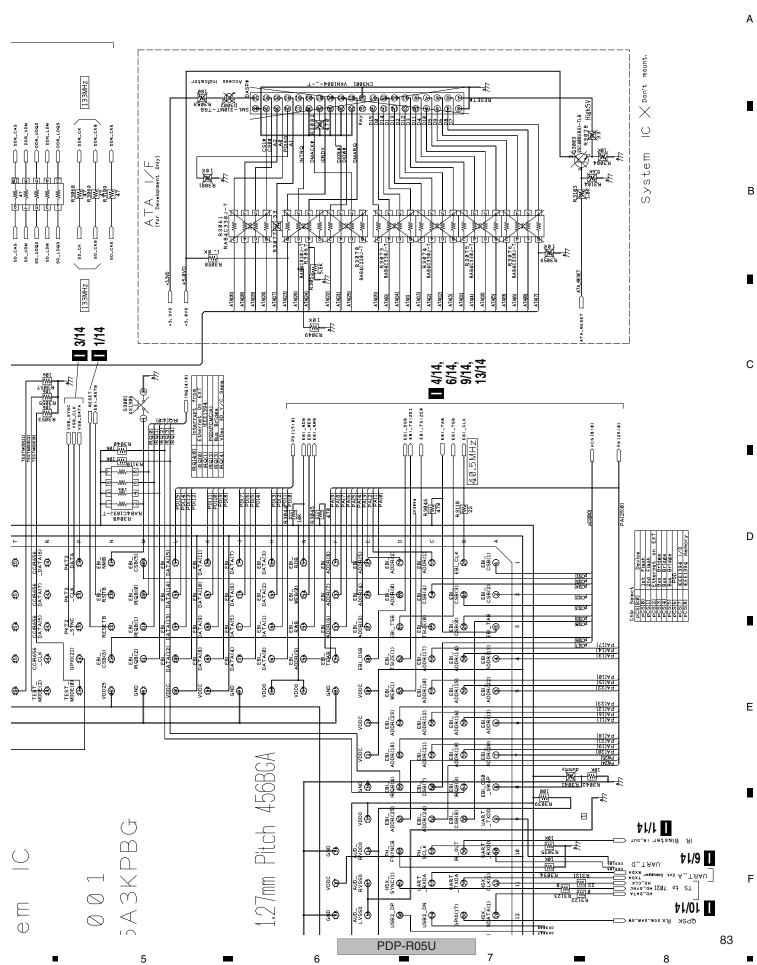
#### **3.30 TUNER BOARD ASSY (5/14)**

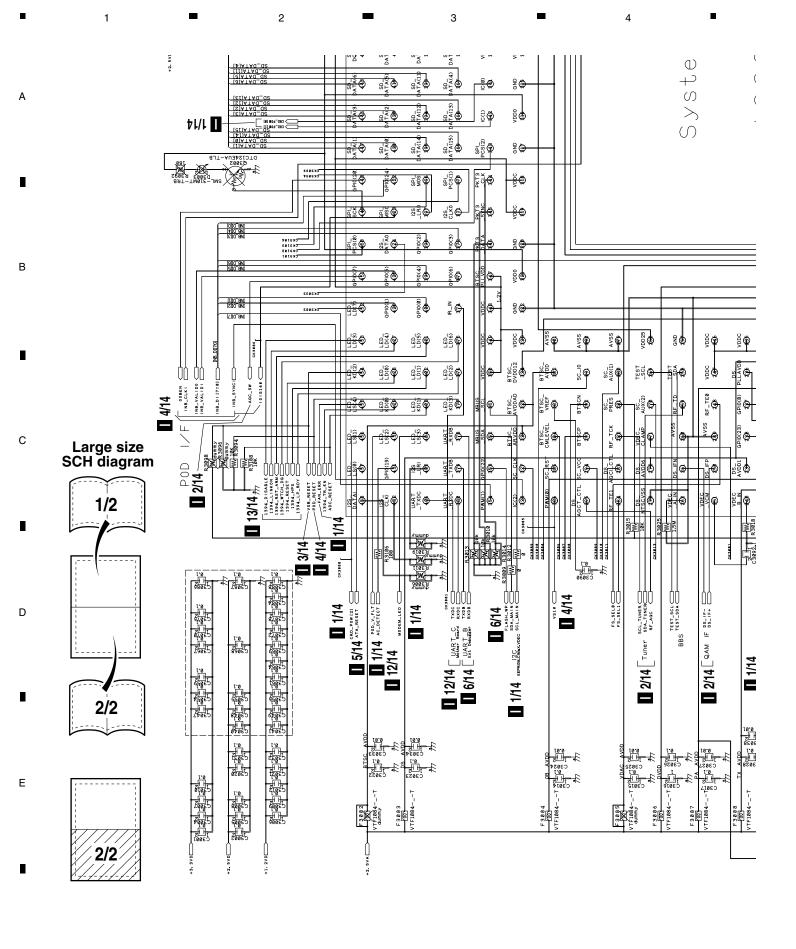
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5/14 TUNER BOARD ASSY (AWE1300)





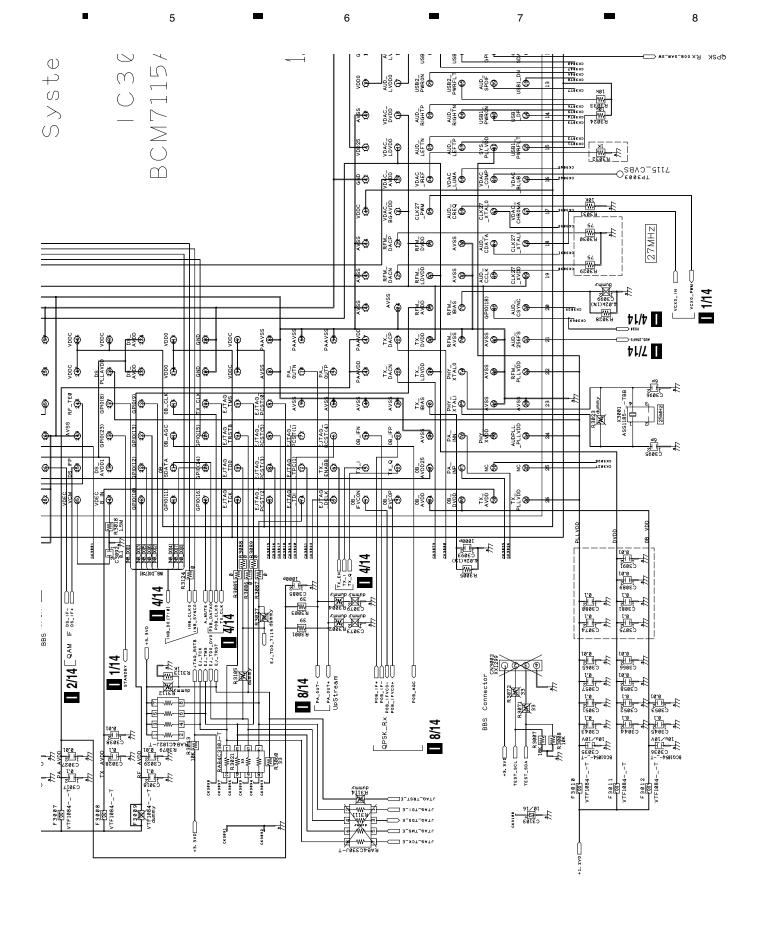


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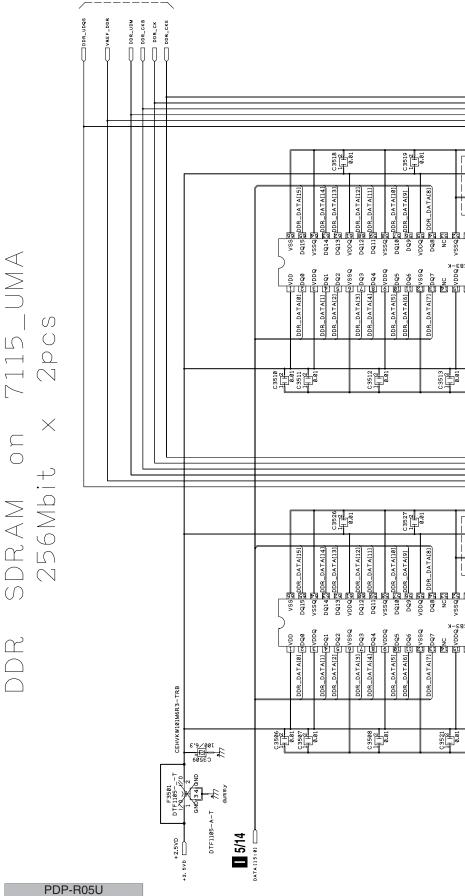
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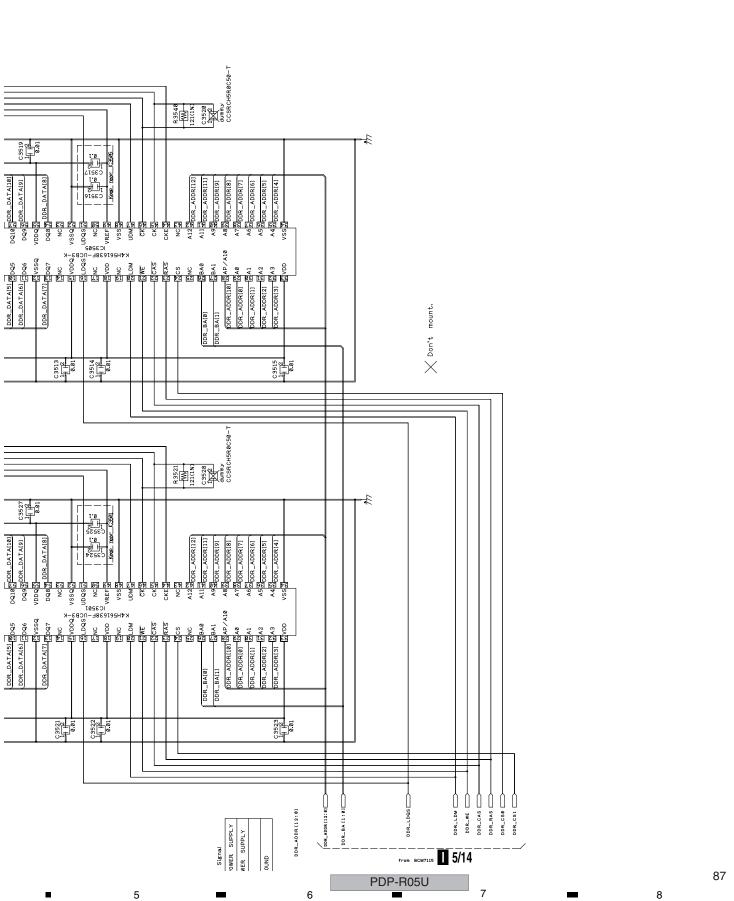
# 3 **3.31 TUNER BOARD ASSY (6/14)** 6/14 TUNER BOARD ASSY (AWE1300) 5/14 from BCM7115 133MHZ DDR\_CKB DDR\_CK В Large size SCH diagram $\bigcirc$ $\bigcirc$ $\bigcirc$ 2/2



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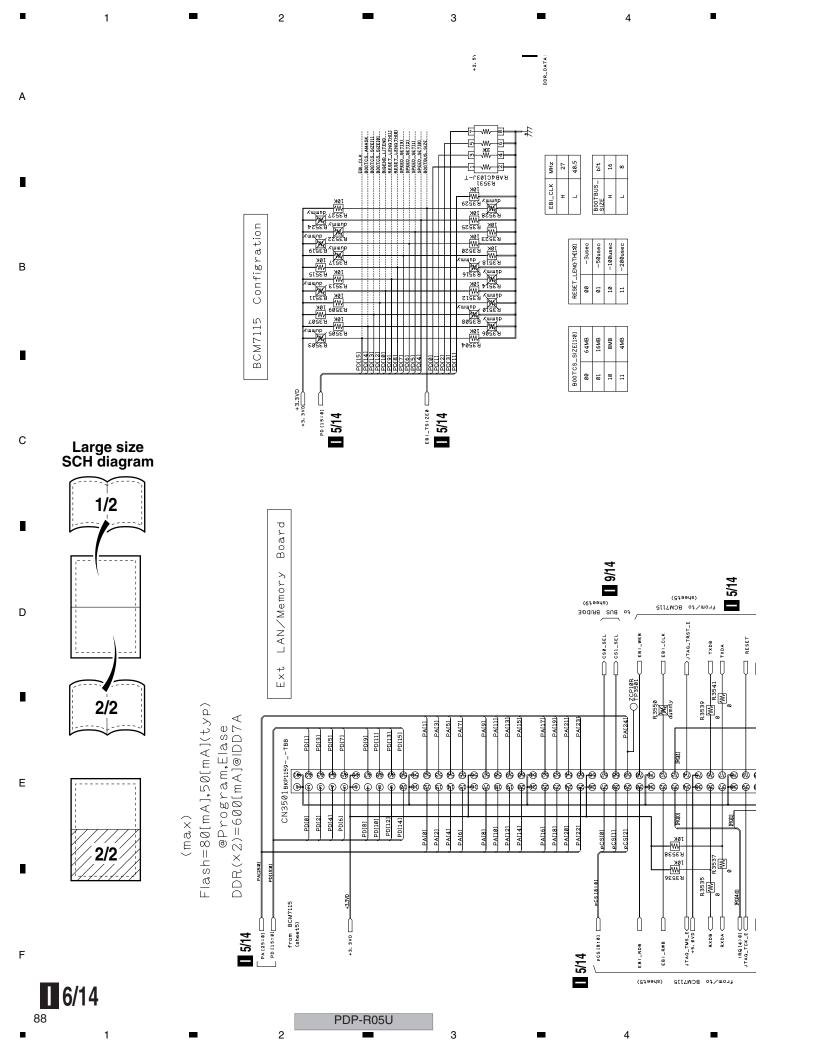
8

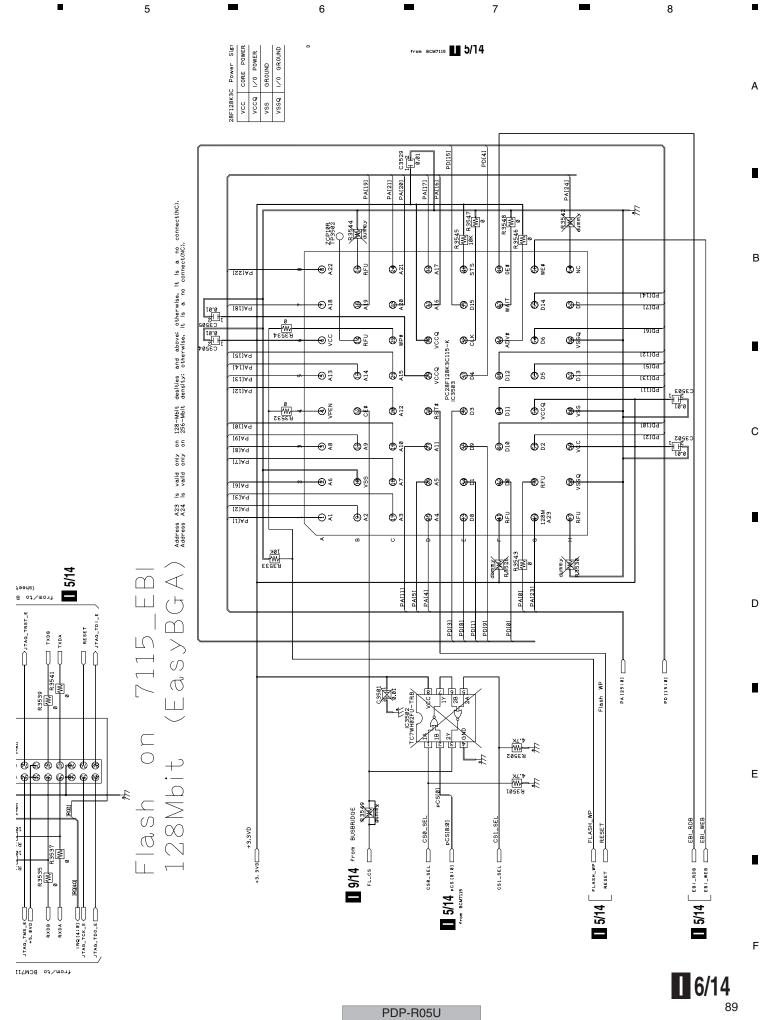
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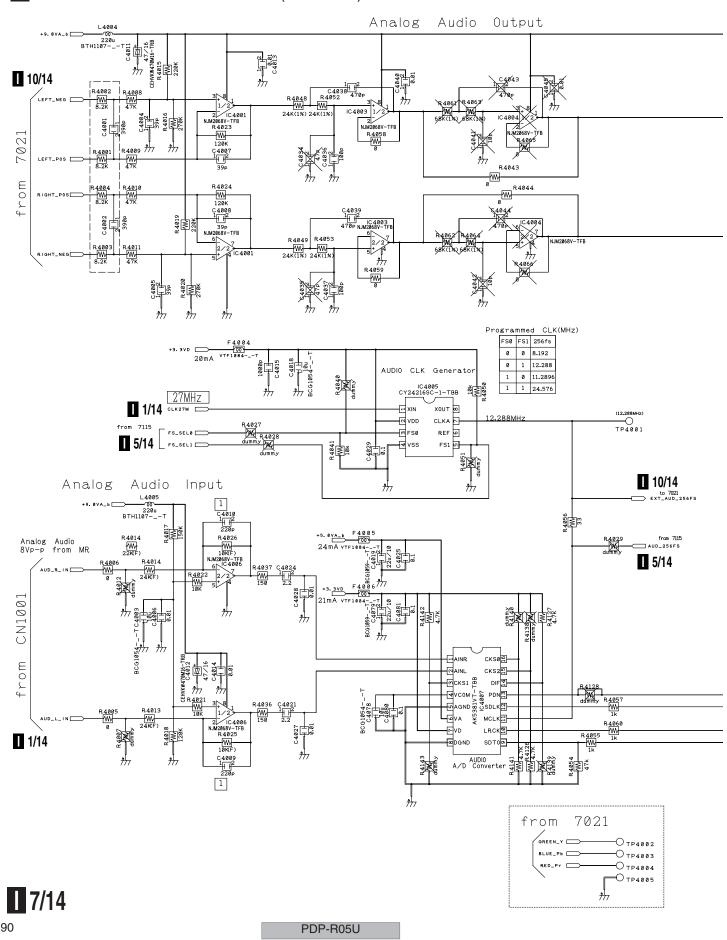


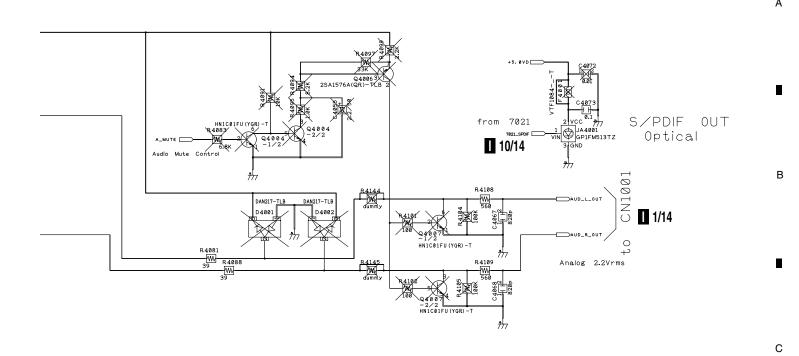


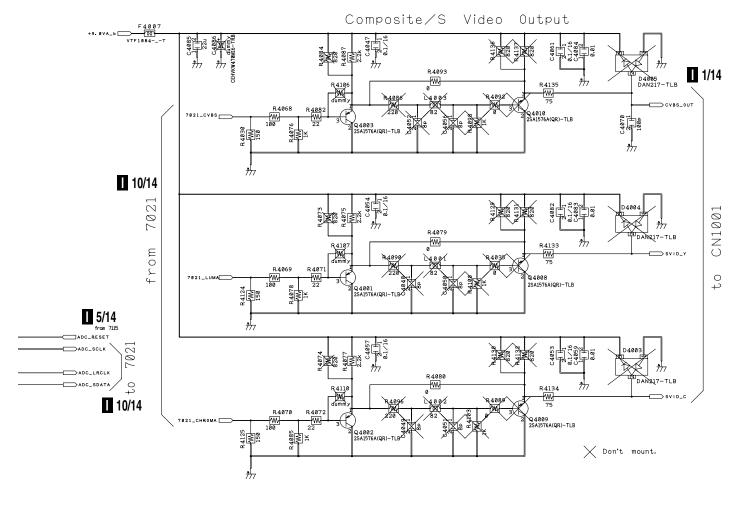
#### 3.32 TUNER BOARD ASSY (7/14)

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## 7/14 DTV TUNER BOARD ASSY (AWE1300)







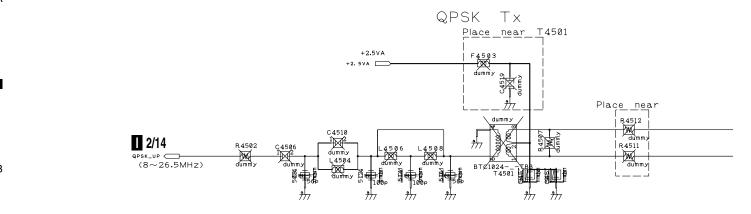
**I** 7/14

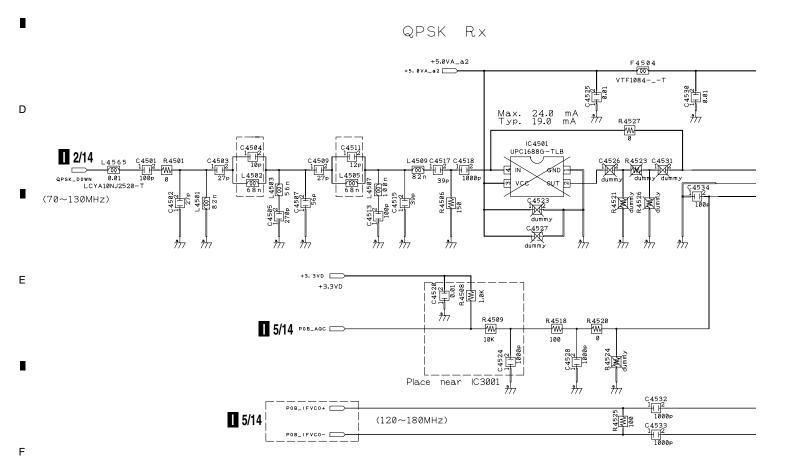
Е

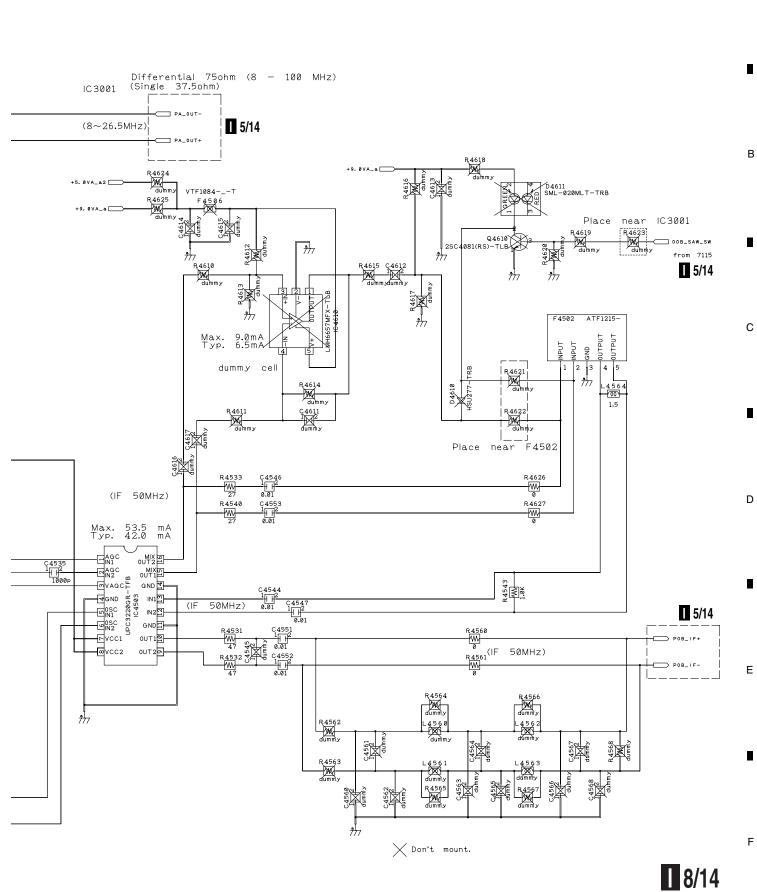
#### **3.33 TUNER BOARD ASSY (8/14)**

**II** 8/14

# 8/14 DTV TUNER BOARD ASSY (AWE1300)

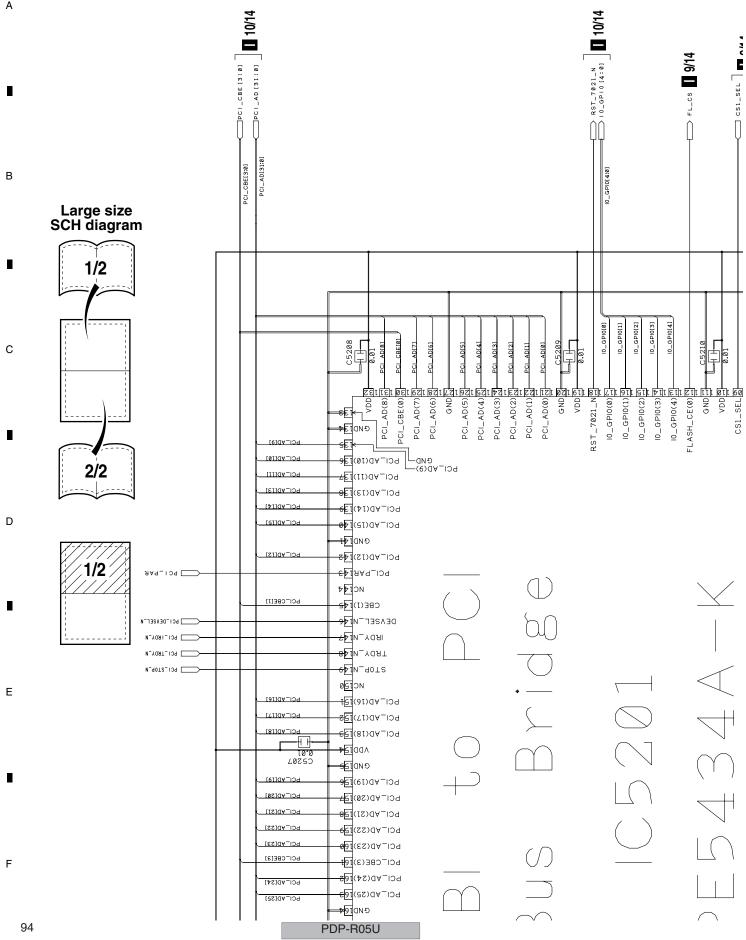


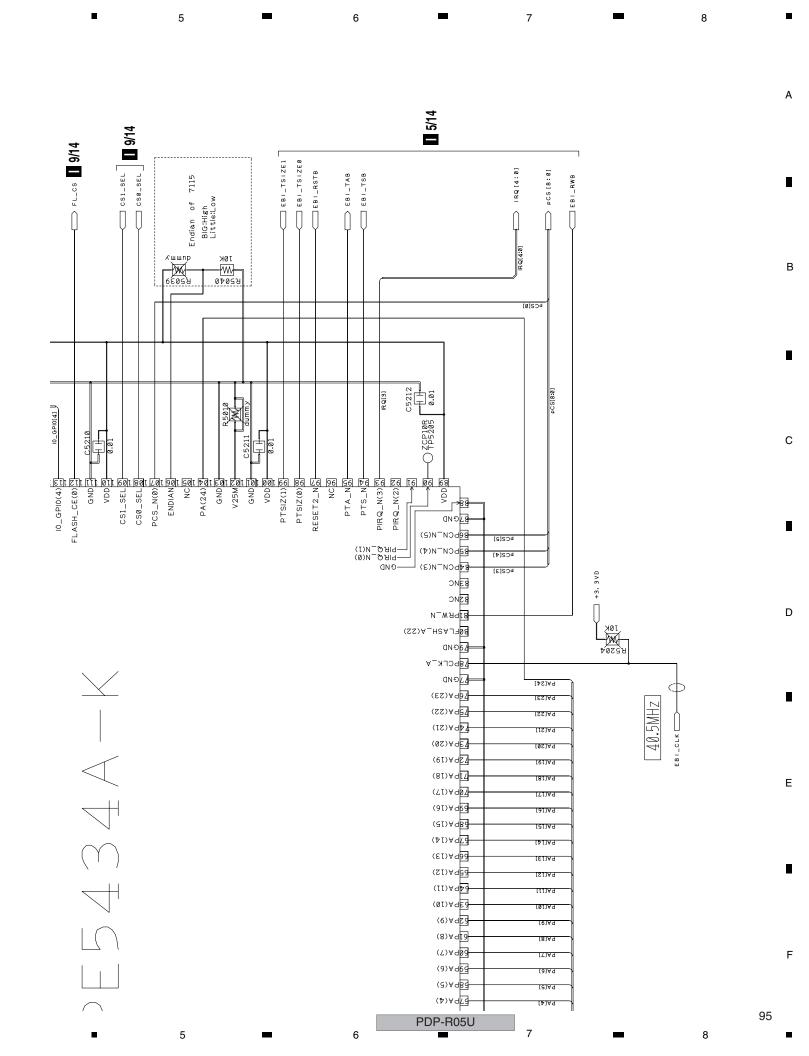


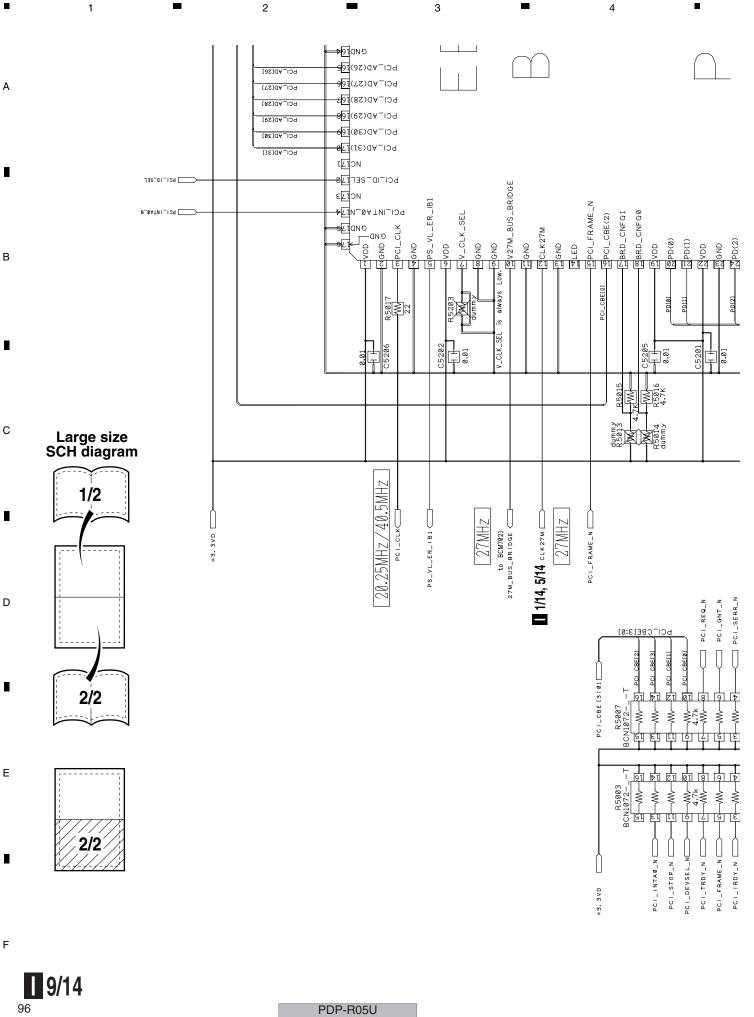


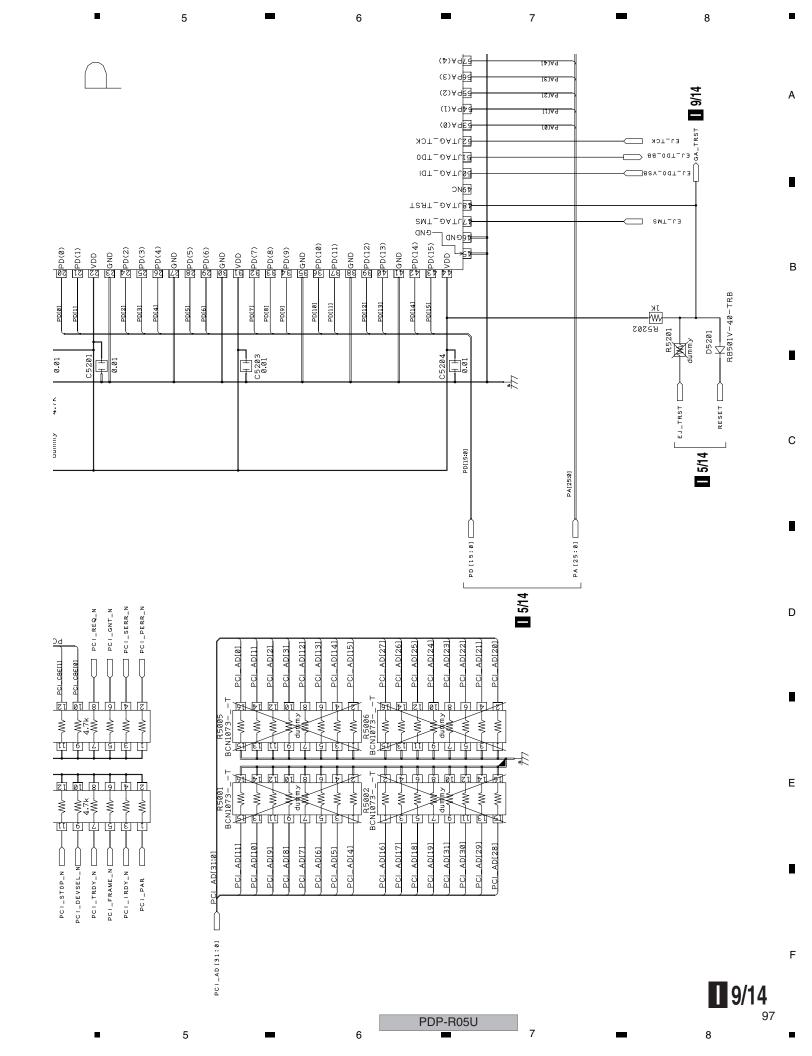
3.34 TUNER BOARD ASSY (9/14)

9/14 TUNER BOARD ASSY (AWE1300)



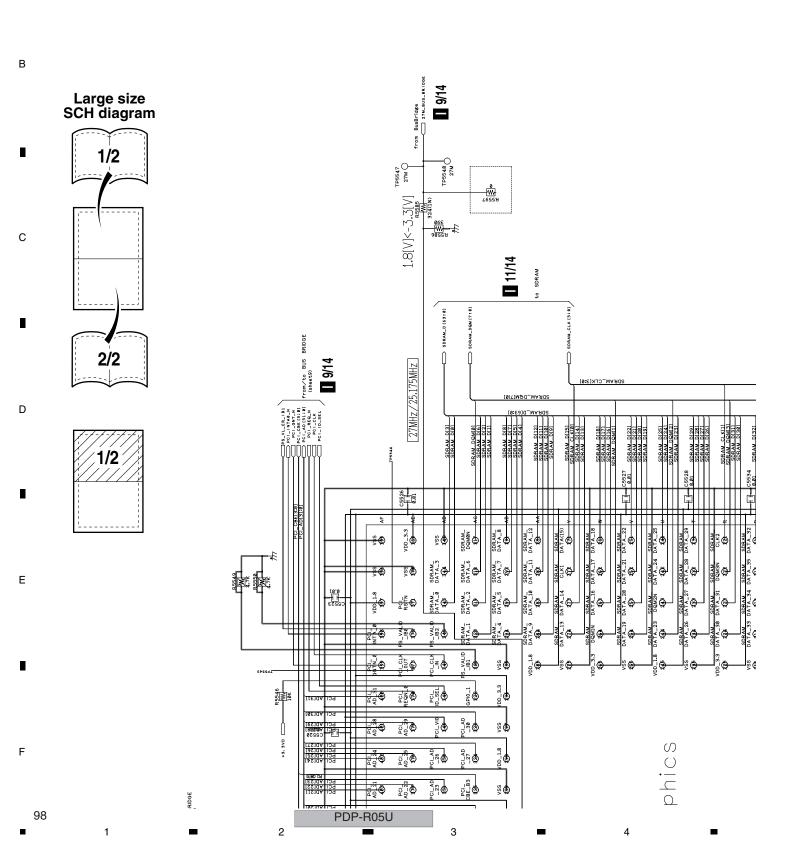


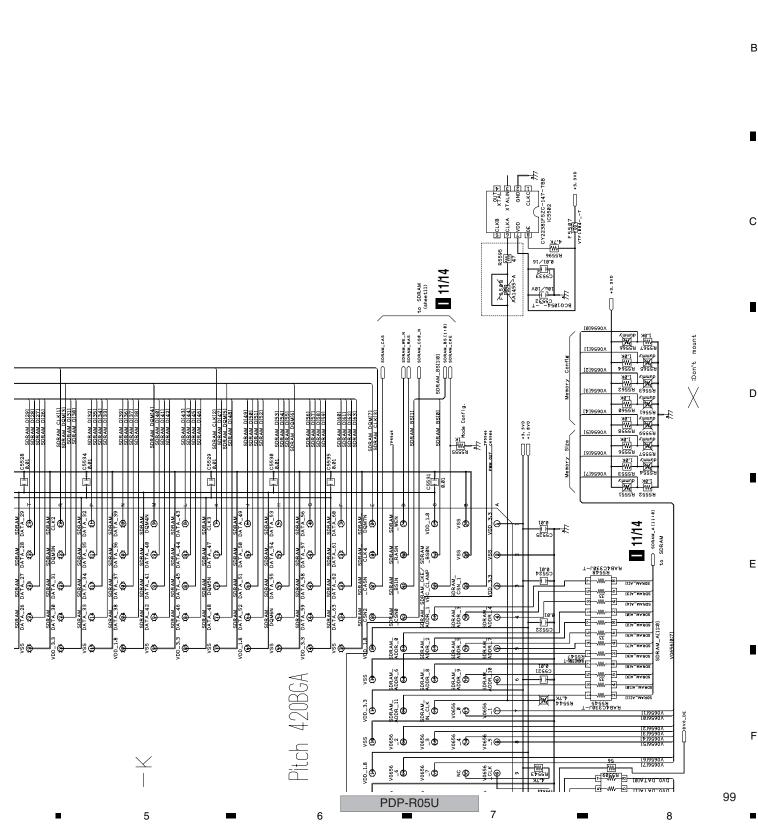




3.35 TUNER BOARD ASSY (10/14)

10/14 TUNER BOARD ASSY (AWE1300)



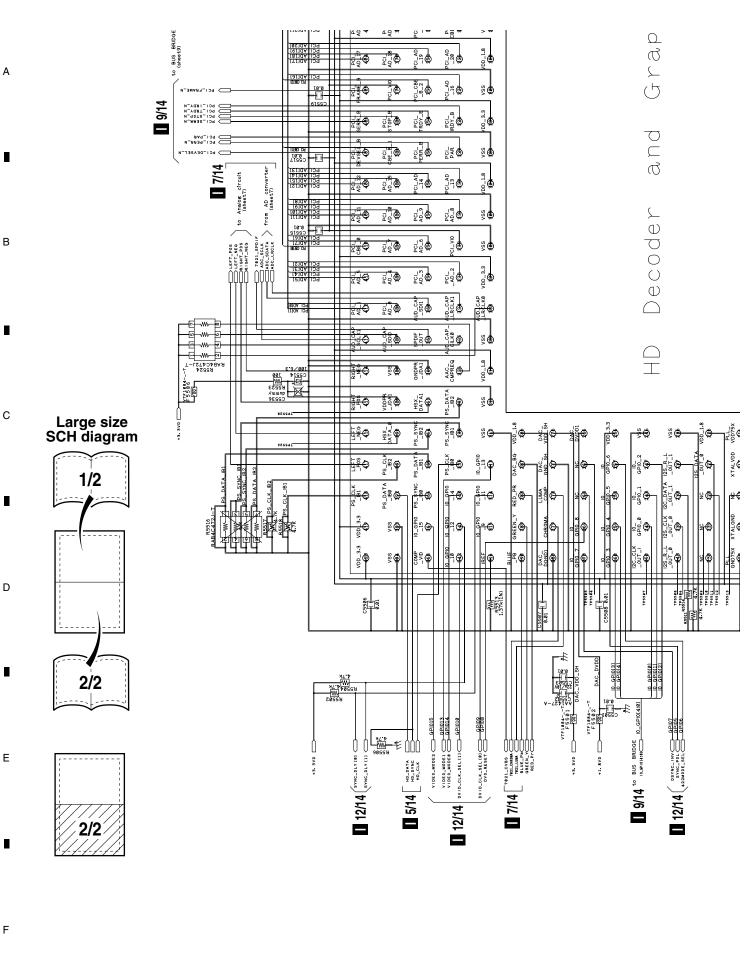


6

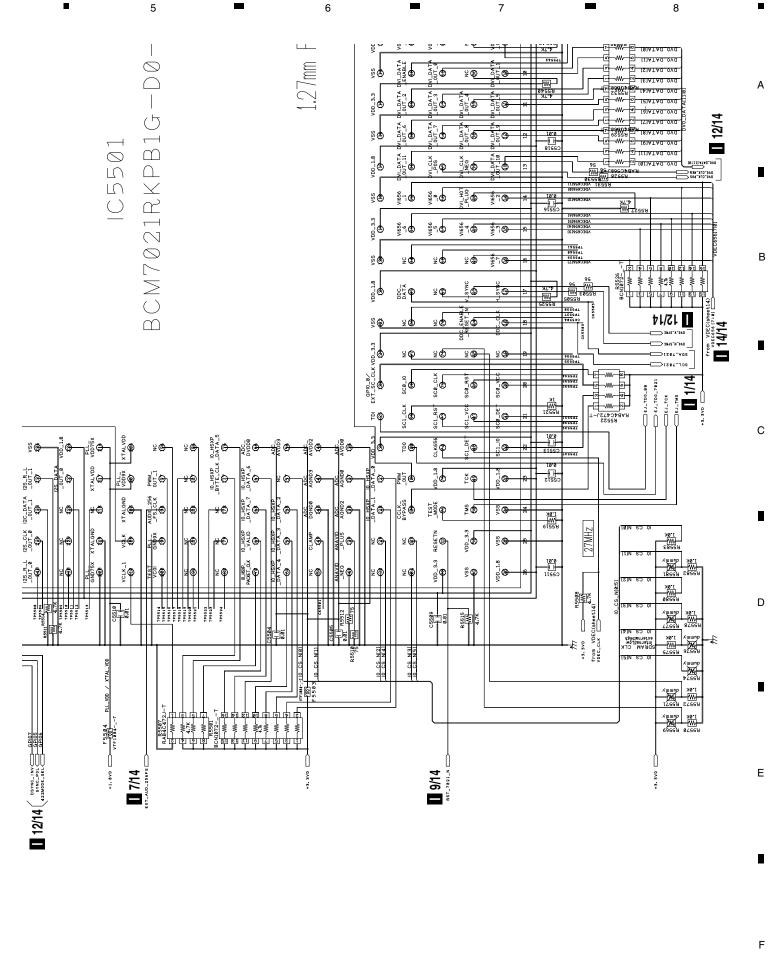
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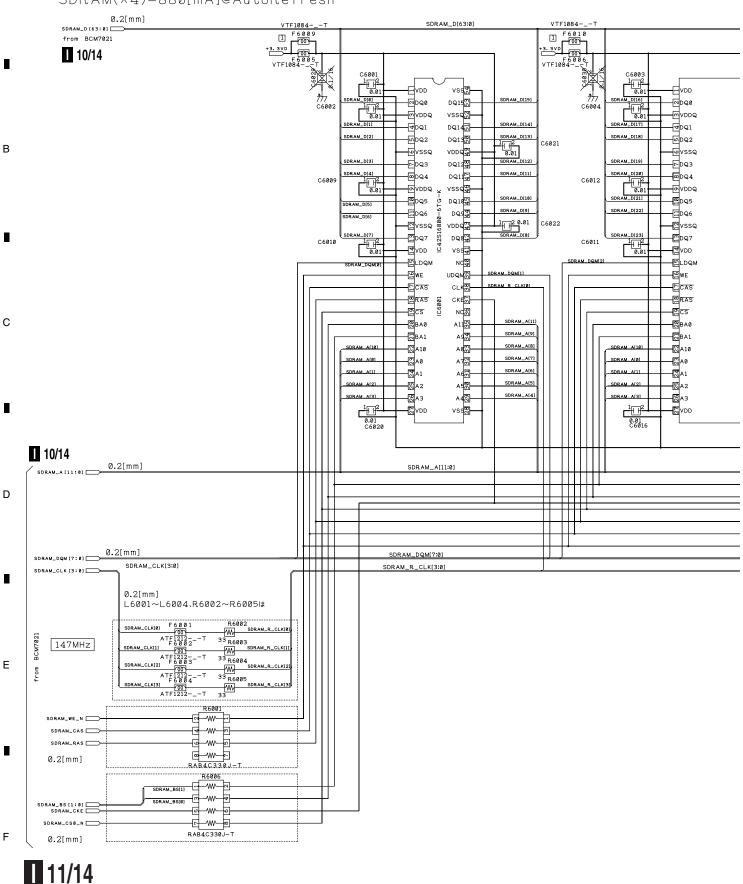
5

### 3.36 TUNER BOARD ASSY (11/14)

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## 11/14 DTV TUNER BOARD ASSY (AWE1300)

 $SDRAM(\times 4) = 880[mA]@AutoRefresh$ 



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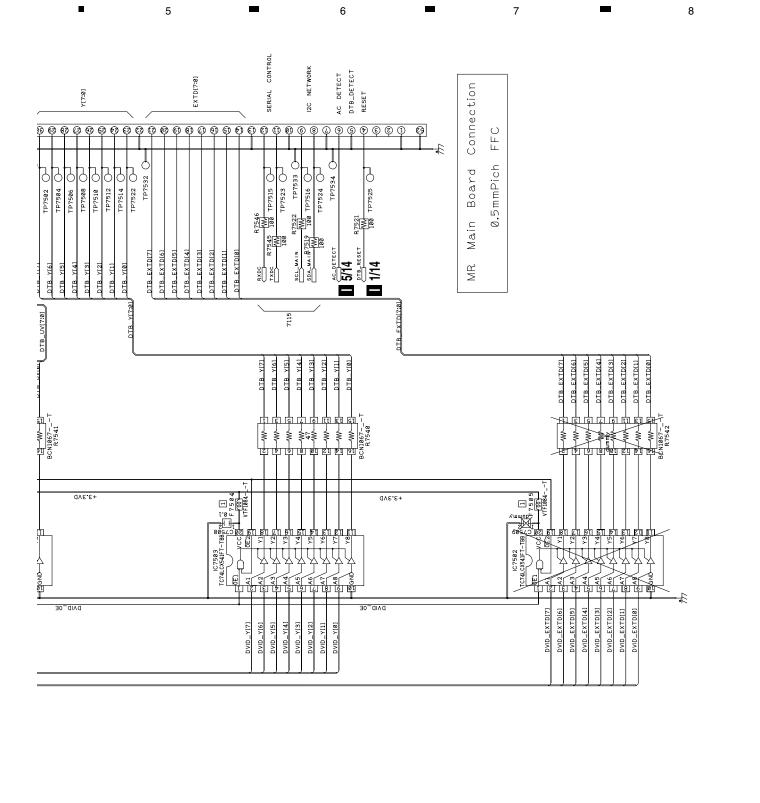
103

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**3.37 TUNER BOARD ASSY (12/14)** 12/14 TUNER BOARD ASSY (AWE1300) CN7501 AKM1236-\_ VSYNC A 7/12 CN6951 CLK DE TP7526 OT TP7526 OT TP7527 OT TP7528 TP7529 — 197561 O 197563 O 197565 O 197567 O 197567 O 197511 O 197513 O 197513 O 197571 O 197 В DTB Y[2] DTB\_Y[4] DTB\_Y[3] DTB\_Y[6] DTB\_Y[5] DTB\_Y[7] DTB UV[4] DTB\_UV[2] DTB\_UV[1] Large size SCH diagram 1/2 VSYNC R7550 R7549 47 47 R7548 R7547 47 47 47 | Control | Cont 43°34D 2/2 D DAID\_0E DVID\_PbPr[3] DVID\_PbPr[5] DVID\_PbPr[2] 1/2 DVID\_Y[7:0],DVID\_PbPr[7:0], DVID\_HS,DVID\_VS,DVID\_DE,DVID\_ Е VID\_EXTD[1] VID\_EXTD[2] VID\_EXTD[3] 104 PDP-R05U



VID EXTD[2] VID\_EXTD[3] VID\_EXTD[4] VID\_EXTD[6] VID\_EXTD[7] VID\_PbPr[3] VID\_PbPr[5] VID\_EXTD[5] VID\_PbPr[4] VID Y[1] VID\_Y[6] VID\_Y[0] VID YE31 VID Y[4] VID Y[5] VID Y[2] VID\_Y[7] PDP-R05U 5 6

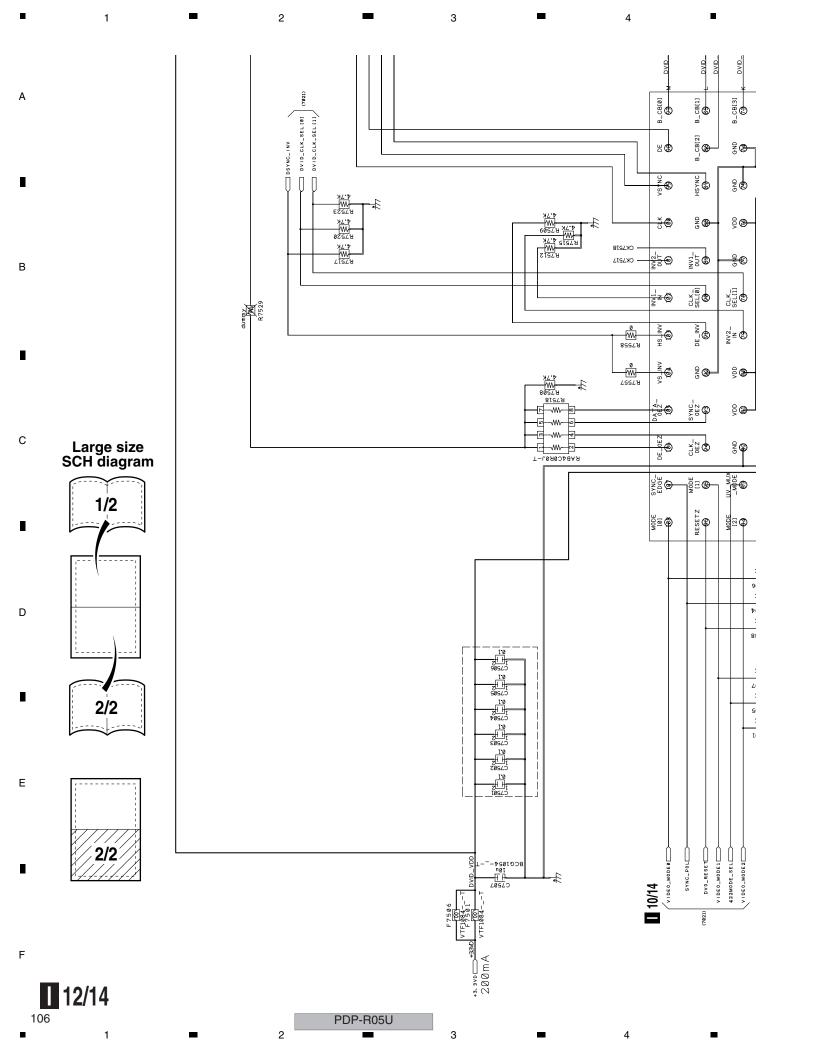
105

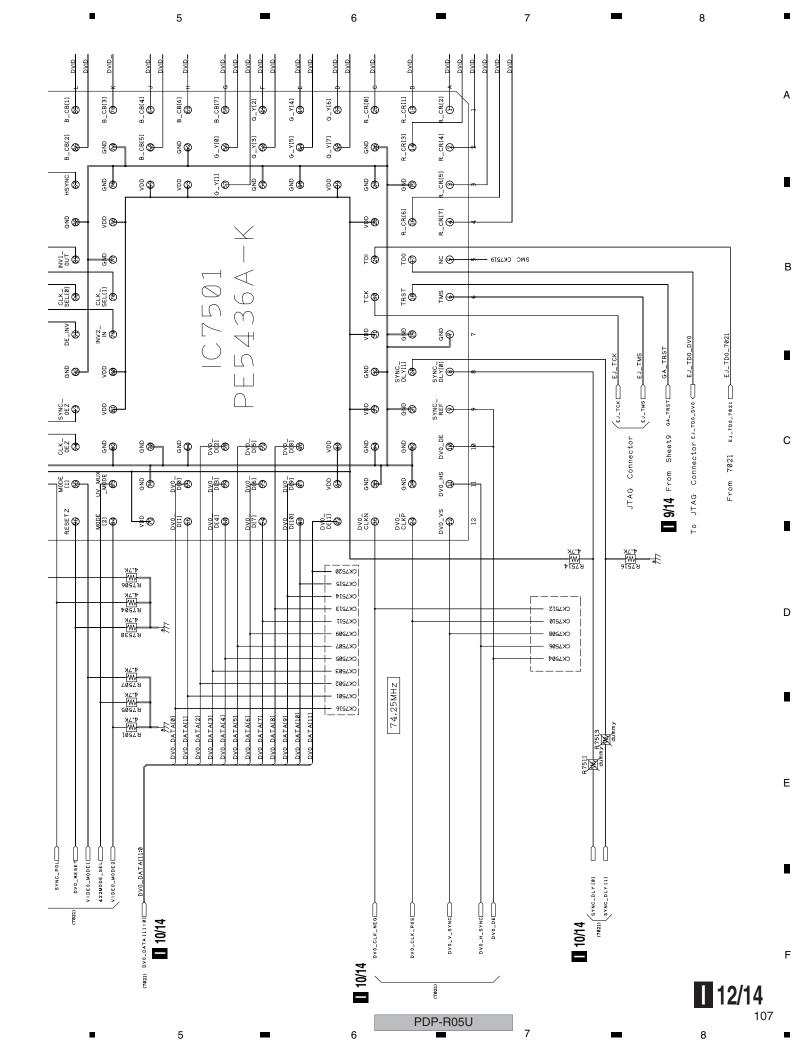
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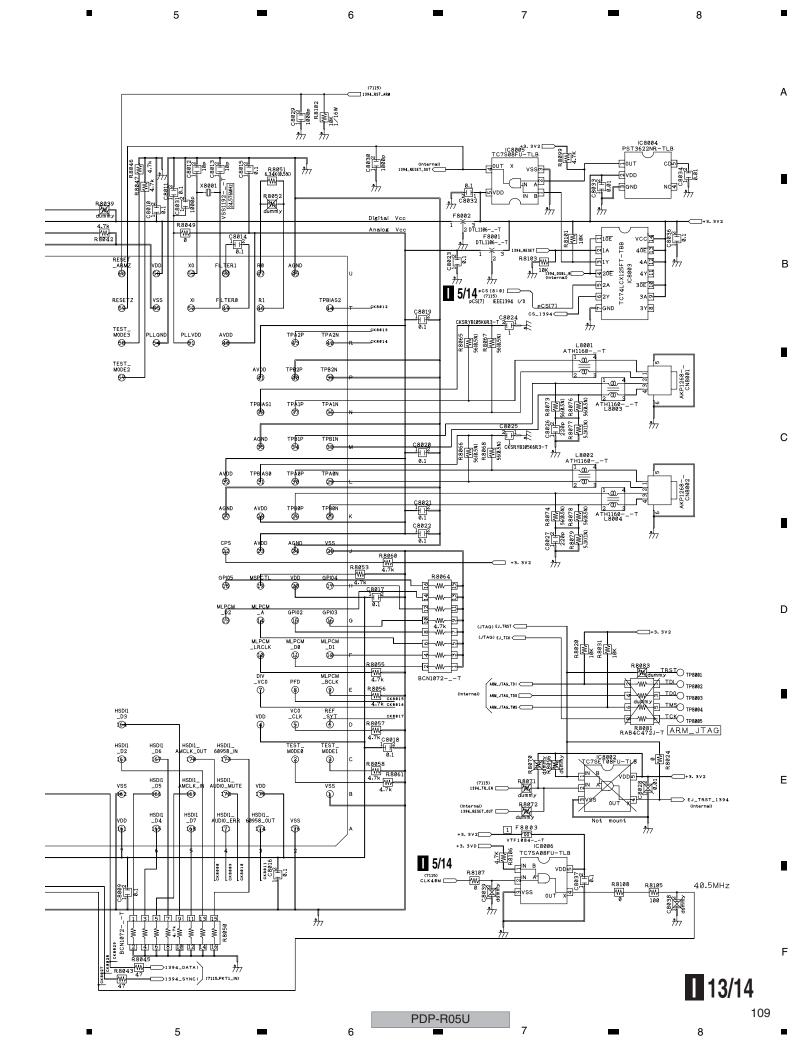




#### 3 **3.38 TUNER BOARD ASSY (13/14)** 13/14 DTV TUNER BOARD ASSY (AWE1300) EJ\_TRST\_1394 5/14 16 14 12 10 8 6 4 2 ARM\_JTAG\_TD0 ARM\_JTAG\_TD1 ARM\_JTAG\_TWS 1 r 5/14 IRQ[1] IEEE1394 INT RQ [3:0] (7115) R8835 4.7,7 R8037 5/14 R8027 JTAG \_TMS REG ENZ R.8016 CS [8:0] 6P|0 69 LINKO pCS[7] | IEEE1394 | /0 pCS[8] | IEEE1394 | memory ARM \_FQ MCIF \_INTZ REG \_OUT 600L CK8882 PIO 1 I 5/14 88915 4.74 MCIF\_ STRBZ MCIF\_ RW MCIF \_0EZ MCIF\_ ACKZ (7115) EBI\_CLK R8007 R8009 40.5MHz IEEE1394 (7115) PD [15:8] MCF\_ BUSCLK MCIF \_D0 (P) -wv-Phy/Link R8001 W 6 vss P ВСN1070-\_-Т MCIF \_D4 MCIF \_D6 MCIF \_D7 -w----w-MCIF \_D10 MC|F \_011 (1)2 -w--b IC8001 -w-100 R8002 MCIF \_013 1(1) REG \_OUT MCIF \_D12 TSB43CA42Z 0 -w-₽ GW-KBCN1070vss 😲 D14 PA[7] MCIF \_A3 132 MCIF \_A2 (2) MCIF \_A4 1(3)8 -w-PA[5] **\*** PA[4] PA[2] -w^--wv--<u>□</u> PA[1] -w-<u>-</u>E PA[0] MCIF \_A8 MCIF \_A9 138 MCIF \_A10 HSDIØ \_D5 HSDI1 \_D1 -w-PA[8] \*\*-B PA[9] REG \_0UT HSDI0\_ 60958\_IN II 5/14 RAB4COROJ-T C8004 1 2 0.1 PA [25:0] [ HSDIØ \_D7 \_\_MCIF\_ ENDIAN MCIF\_ MODE1 137 (5) HSDI: \_CLI MCIF\_ MODE@ HSDIØ \_CLK 1338 HSDIO \_SYN Endian (3) 5/14 (internal) → 1394\_DSBL\_B DTC124EUA-TLB A T. W. R8029 A T. W. R8020 CK8886 ZCP18R 5/14 38MHz **13/14** 108 PDP-R05U

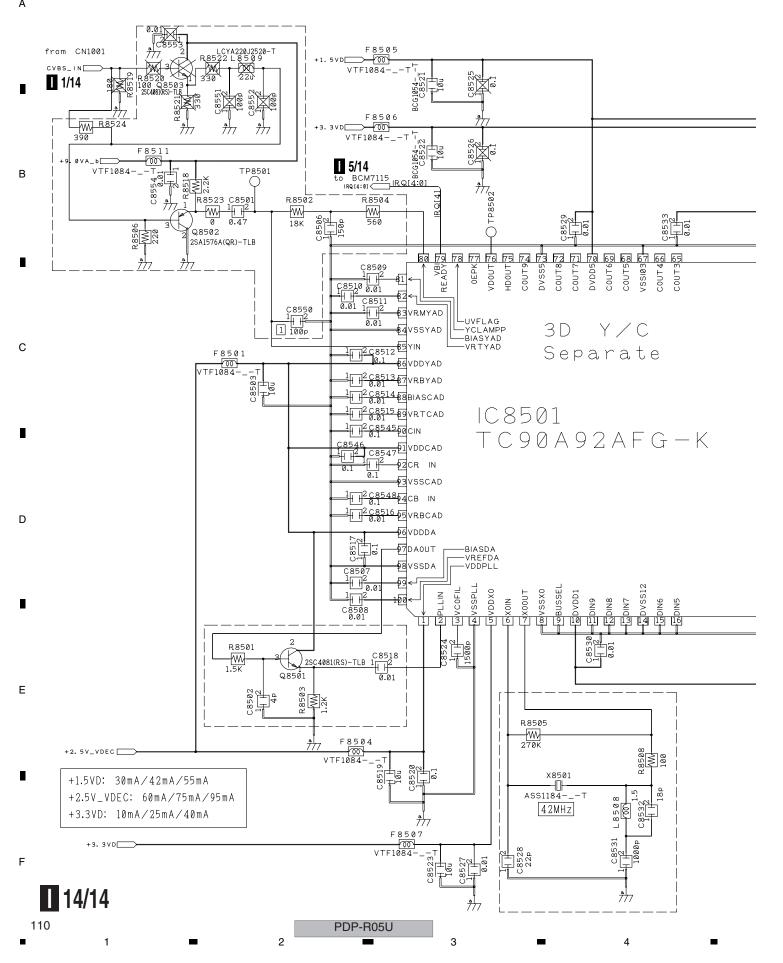
В

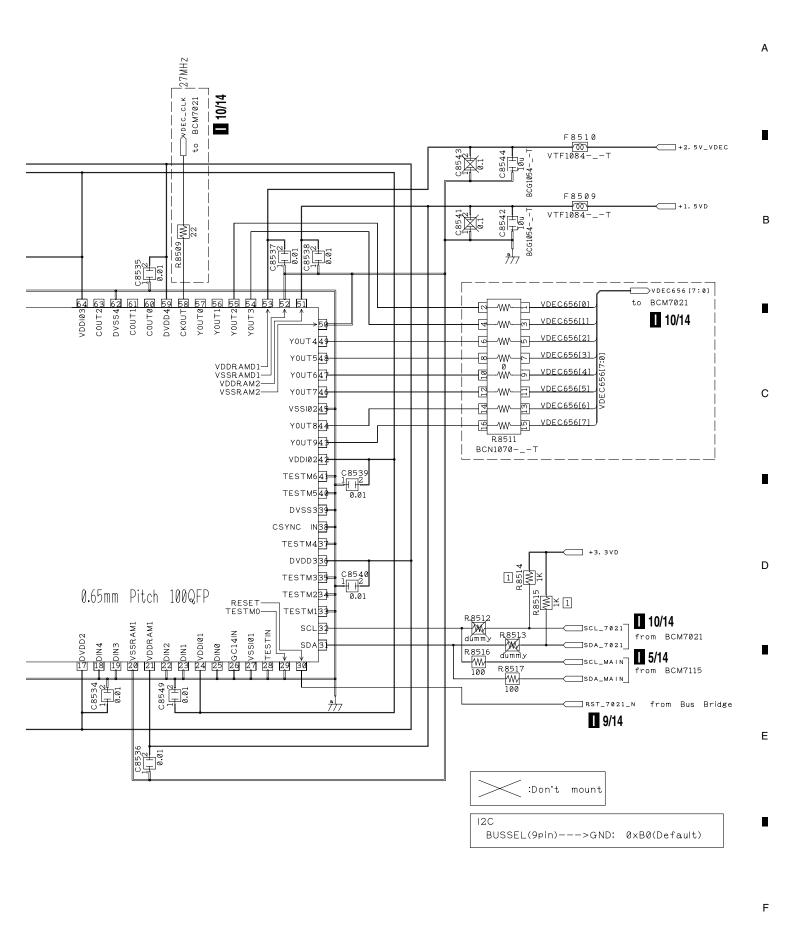
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## **3.39 TUNER BOARD ASSY (14/14)**

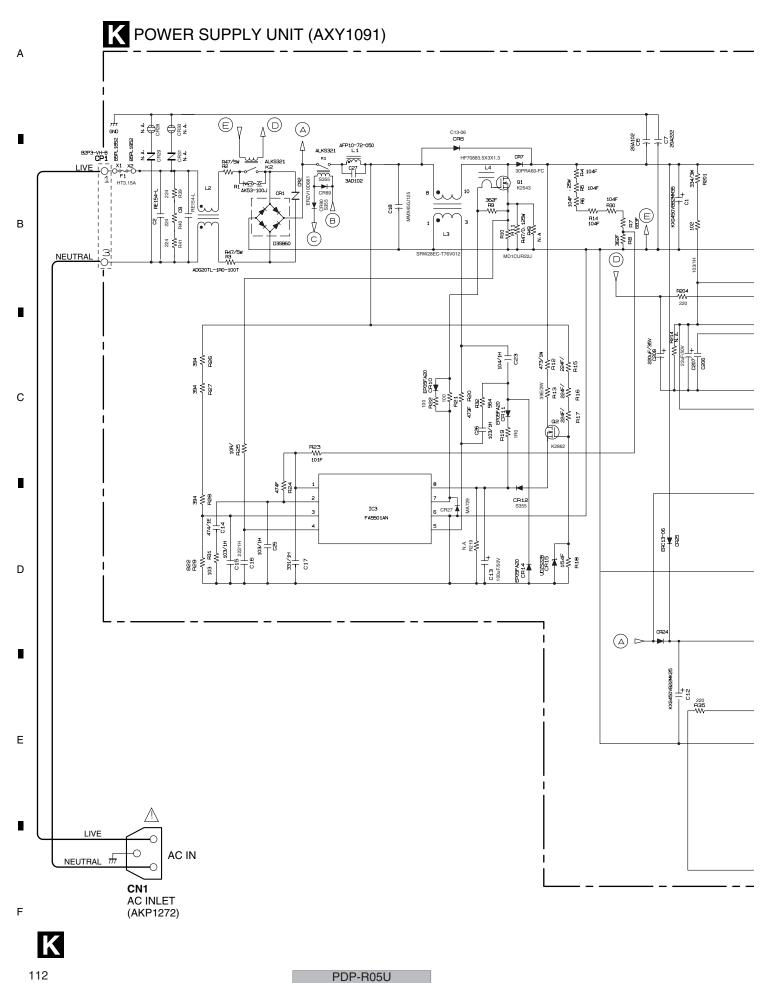
# 14/14 DTV TUNER BOARD ASSY (AWE1300)

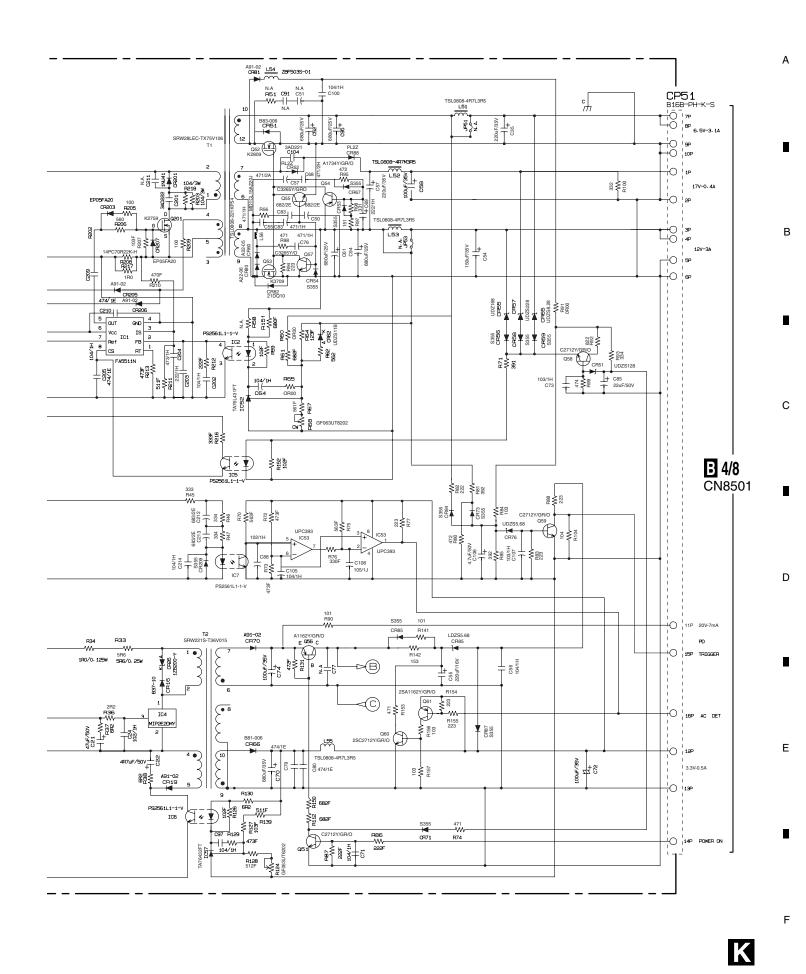




**I** 14/14

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Note: The encircled numbers denote measuring point in the schematic diagram.

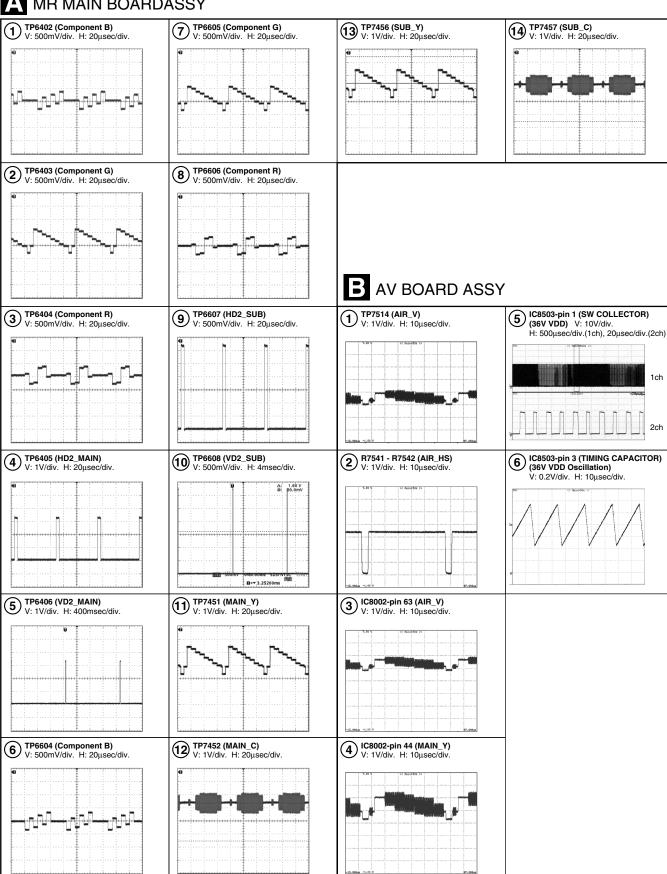
## MR MAIN BOARDASSY

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### 3.42 VOLTAGES

**B** AV BOARD ASSY A MR MAIN BOARD ASSY

브	AV BOARD ASSY		MR MAIN BOARD AS	
	CN8652 (AKM1201)	Voltage	CN7455 (AKM1201)	
No.	Name	(V)	Name	No.
1	GND	0	GND	50
2	GND	0	GND	49
3	AUDIO_R	0	AUDIO_R	48
4	GND	0	GND	47
5	AUDIO_L	0	AUDIO_L	46
6	GND	0	GND	45
7	HDMI_RCH	0	HDMI_RCH	44
8	GND	0	GND	43
9	HDMI_LCH	0	HDMI_LCH	42
10	GND	0	GND	41
11	GND	0	GND	40
12	GND	0	GND	39
13	GND	0	GND	38
14	GND	0	GND	37
15	GND	0	GND	36
16	GND	0	GND	35
17	GND	0	GND	34
18	GND	0	GND	33
19	GND	0	GND	32
20	GND	0	GND	31
21	GND	0	GND	30
22	GND	0	GND	29
23	GND	0	GND	28
24	GND	0	GND	27
25	GND	0	GND	26
26	AIR_AFT2	1.7	AIR_AFT2	25
27	AIR_HS2	0	AIR_HS2	24
28	AIR_AFT	1.8	AIR_AFT	23
29	AIR_HS	0.5	AIR_HS	22
30	RST_IF	3.3	RST_IF	21
31	TXD_WR	3.3	TXD_WR	20
32	RXD_WR	3.3	RXD_WR	19
33	SDA_AV	5	SDA_AV	18
34	SCL AV	5	SCL_AV	17
35	RXD_IF	3.3	RXD_IF	16
36	TXD_IF	3.3	TXD_IF	15
37	CLK_IF	3.3	CLK IF	14
38	REQ_IF	0	REQ_IF	13
39	BUSY_IF	0	BUSY_IF	12
$\vdash$	CE_IF		CE_IF	
40		3.3		11
$\vdash$	RESET_TXT	3.3	RESET_TXT	10
42	RELAY REM B	2.4 3.3	RELAY	9
$\vdash$	_		REM_B	8
44	PSW1	0	PSW1	7
45	PD_MAIN	0	PD_MAIN	6
46	WE_ROM	0	WE_ROM	5
47	AM_MUTE	0	AM_MUTE	4
48	N.C.	_	N.C.	3
49	N.C.	A14/7007-	N.C.	2
50	ELITE_DET	AWZ6978 0V AWZ6979 3.3V	ELITE_DET	1

**B** AV BOARD ASSY

A MR MAIN BOARD ASSY

	CN8504 (KM200NA15)	Voltage	CN7451 (AKM1301)	
No.	Name	(V)	Name	No.
15	GND	0.0	GND	1
14	V+3V_STB	3.3	V+3V_STB	2
13	GND	0.0	GND	3
12	V+3V_UCOM	3.3	V+3V_UCOM	4
11	GND	0.0	GND	5
10	V+12V_16V	16.9	V+12V_16V	6
9	GND	0.0	GND	7
8	V+6V	6.7	V+6V	8
7	GND_D	0.0	GND_D	9
6	V+1V_DD	1.5	V+1V_DD	10
5	V+1V_DD	1.5	V+1V_DD	11
4	GND_D	0.0	GND_D	12
3	V+3V_DD	3.3	V+3V_DD	13
2	V+3V_DD	3.3	V+3V_DD	14
1	GND_D	0.0	GND_D	15

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	CN8651 (AKM1201)	Voltage	CN7454 (AKM1201)	
No.	Name	Voltage (V)	Name	
1	AC_DET	2.7	AC DET	
2	KEY_B	3.3	KEY_B	
3	STB_MT	0	STB_MT	1
4	AC_OFF	0	AC_OFF	
5	SDA_EP2	3.3	SDA_EP2	1
6	SCL_EP2	3.3	SCL_EP2	
7	VCC_EP	3.3	VCC_EP	
8	N.C.	_	N.C.	
9	N.C.	_	N.C.	
10	WE_TXT	0	WE_TXT	
11	N.C.	_	N.C.	
12	MON_MUTE	0	MON_MUTE	
13	DSUB_DET	0	DSUB_DET	
14	PN2	0	PN2	1
15	VD_TXT	0	VD_TXT	
16	HD_TXT	0	HD_TXT	
17	PCA_V_SUB	0	PCA_V_SUB	1
18	PCA_H_SUB	0	PCA_H_SUB	1
19	PCA_V	0	PCA V	
20	PCA_H	0	PCA_H	
21	BLK	0	BLK	
22	GND	0	GND	1
23	GND	0	GND	1
24	GND	0	GND	1
25	SUBC_Y	4.5	SUBC_Y	1
26	GND	0	GND	
27	SUBC_PR	4.5	SUBC_PR	
28	GND	0	GND	
29	SUBC_PB	4.5	SUBC_PB	
30	GND	0	GND	
31	SUB_C	4.3	SUB_C	1
32	GND	0	GND	1
33	SUB Y	3.7	SUB_Y	1
34	GND	0	GND	
35	G_CCTXT	1.3	G_CCTXT	1
36	GND	0	GND	1
37	R CCTXT	1.3	R_CCTXT	
38	GND	0	GND	
39	B_CCTXT	1.3	B_CCTXT	1
40	GND	0	GND	
41	MAINC_Y	4.5	MAINC_Y	
42	GND	0	GND	+
43	MAINC_PR	4.5	MAINC PR	+
44	GND	0	GND	+
45	MAINC PB	4.5	MAINC PB	+
46 46	GND	0	GND	+
47	MAIN_C	4.4	MAIN_C	+
47	GND	0	GND	+
48 49	MAIN_Y	4.4	MAIN_Y	+
49 50	GND	0	GND	+

	3		4	
TU	NER BOARD ASSY	Į.	MR MAIN BOARD AS	SSY
C	CN7501 (AKM1236)	Voltage	CN6951 (AKM1201)	
No.	Name	(V)	Name	No.
1	GND	0	GND_D	50
2	N.C.	-	N.C.	49
3	Not used		Not used	48
4	RESET	3.37	RST_DT	47
5	DTB_DET	0	DT_DET	46
6	N.C.	-	N.C.	45
7	GND	0	GND_D	44
8	N.C.	-	N.C.	43
9	N.C.	_	N.C.	42
10	GND	0	GND_D	41
11	TXDC	3.3	RXD_DT	40
12	RXDC	3.3	TXD_DT	39
13	GND	0	GND_D	38
14	-	_	_	37
15	GND	0	GND_D	36
16	GND	0	GND_D	35
17	GND	0	GND_D	34
18	GND	0	GND_D	33
19	GND	0	GND_D	32
20	GND	0	GND_D	31
21	GND	0	GND_D	30
22	GND	0	GND_D	29
23	Y0	0/3.3	Y0	28
24	Y1	0/3.3	Y1	27
25	Y2	0/3.3	Y2	26
26	Y3	0/3.3	Y3	25
27	Y4	0/3.3	Y4	24
28	Y5	0/3.3	Y5	23
29	Y6	0/3.3	Y6	22
30	Y7	0/3.3	Y7	21
31	GND	0	GND_D	20
32	UV0	0/3.3	UV0	19
33	UV1	0/3.3	UV1	18
-				-

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0

3.1

0

3.2

0

2.6

0

1.6

0

0

0

#### A MR MAIN BOARD ASSY

UV2

UV3

UV4

UV5

UV6

UV7

GND

HS

GND

VS

GND

DE

GND

CLK

GND

OE\_B

GND

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

#### FAN MOTOR

17

16

15

14

13

12

11

10

9

8

7

6 5

4

3

2

1

UV2

UV3

UV4

UV5

UV6

UV7

GND\_D

HS

GND\_D

VS

GND\_D

DE

GND\_D

CLK

GND\_D

OE\_B

GND\_D

	CN7202 , CN7204 (AKM1274)	Voltage (V)	CN6951 (AKM1201)	
No.	Name		Name	No.
1	FAN_12V	6.9		
2	FAN_NG	0		
3	GND	0		

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**B** AV BOARD ASSY

LED ASSY

	CN8656 (KM200NA7)	7) Voltage CN7651 (AKM1293		()
No.	Name	(V)	Name	No.
1	V+3V_STB	3.3	V+3V_STB	1
2	LED_G	0	LED_G	2
3	LED_R	3.3	LED_R	3
4	GND	0	GND	4
5	LED_MDM	0	LED_MDM	5
6	LED_FCT	3.3	LED_FCT	6
7	GND	0.0	GND	7

**B** AV BOARD ASSY

K POWER SUPPLY UNIT

	CN8501 (KM200NA16)	Voltage	CP51 (KM200NA16)	
No.	Name	(V)	Name	No.
1	V+16.5V	17.6	V+16.5V	1
2	GND	0	GND	2
3	V+12V	12	V+12V	3
4	V+12V	12	V+12V	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+6.5V	6.8	V+6.5V	7
8	V+6.5V	6.8	V+6.5V	8
9	GND	0	GND	9
10	GND	0	GND	10
11	V+12V_STB	14.9	V+12V_STB	11
12	V+3V_STB	3.3	V+3V_STB	12
13	GND	0	GND	13
14	RELAY	2.4	RELAY	14
15	PD_TRIGGER	0	PD_TRIGGER	15
16	AC_DET	2.7	AC_DET	16

**B** AV BOARD ASSY

F SR ASSY

	CN7801 (AKM1233)	Voltage	CN9452 (CKS3826)	
No.	Name	(V)	Name	No.
1	NC	-	NC	12
2	NC	-	NC	11
3	TXD_SR4	0	TXD_SR4	10
4	RXD_SR4	5	RXD_SR4	9
5	5V_STD	5	5V_STD	8
6	NC	-	NC	7
7	GND	0.0	GND	6
8	REM_B	5	REM_B	5
9	SR_IN	3.3	SR_IN	4
10	GND	0.0	GND	3
11	IR	0.0	IR	2
12	GND	0.0	GND	1

A MR MAIN BOARD ASSY

TRAP SW

	CN7203 (AKM1213)	Voltage		
No.	Name	(V)	Name	No.
1	TRAP_SW	0.7		
2	NC			
3	V+3V_UCOM	3.3		

**B** AV BOARD ASSY

TUNER BOARD ASSY

CN8502 (KM200NA12)		Voltage	CN1002 (AKM1298-A-TBB	3)
No.	Name	(V)	Name	No.
1	NC	-	NC	1
2	GHD_D	0	GHD_D	2
3	V+3.3VA	3.3	V+3.3VA	3
4	GND_D	0.0	GND_D	4
5	V+5VA	5	V+5VA	5
6	GND_D	0	GND_D	6
7	V+6.5VA	6.8	V+6.5VA	7
8	GND_D	0.0	GND_D	8
9	V+12V	12	V+12V	9
10	GND_D	0.0	GND_D	10
11	V+30V	31	V+30V	11
12	GND_D	0.0	GND_D	12

**B** AV BOARD ASSY

TUNER BOARD ASSY

	CN8503 (KM200NA14)	Voltage	CN1003 (AKM1300-A-TBB	)
No.	Name	(V)	Name	No.
1	GND_D	0	GND_D	1
2	V+6.5VD	6.8	V+6.5VD	2
3	GND_D	0	GND_D	3
4	V+5VD	5	V+5VD	4
5	GND_D	0	GND_D	5
6	V+1.8VD	1.8	V+1.8VD	6
7	GND_D	0	GND_D	7
8	V+3.3V2	3.3	V+3.3V2	8
9	GND_D	0	GND_D	9
10	V+3.3VD	3.3	V+3.3VD	10
11	V+3.3VD	3.3	V+3.3VD	11
12	GND_D	0	GND_D	12
13	V+2.5VD	2.5	V+2.5VD	13
14	GND_D	0	GND_D	14

A MR MAIN BOARD ASSY

**E** MDR ASSY

	MIT WITH BOTH B 71001		E WEITH	
	CN7402 (AKM1234)	Voltage	CN9302 (CKS3830)	
No.	Name	(V)	Name	No.
16	GND_D	0	GND_D	1
15	AUDIO_L	0	AUDIO_L	2
14	ACT3V	3.3	ACT3V	3
13	AUDIO_R	0	AUDIO_R	4
12	V+3V_UCOM	3.3	V+3V_UCOM	5
11	STB3V	3.3	STB3V	6
10	SP_MUTE	3.3	SP_MUTE	7
9	MTXD	3.3	MTXD	8
8	FIELD	0	FIELD	9
7	MRXD	3.3	MRXD	10
6	REM_B	3.3	REM_B	11
5	P_ST_B	0	P_ST_B	12
4	AC_OFF	0	AC_OFF	13
3	REQ	0	REQ	14
2	KEY_B	3.3	KEY_B	15
1	STB_MT	0	STB_MT	16

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**B** AV BOARD ASSY **G** FRONT ASSY CN8653 (AKM1201) CN9502 (AKM1201) Voltage (V) No. Name Name 50 V+9V\_A 9 V+9V\_A 1 V+5V\_A 49 V+5V\_A 2 5.0 48 V+3VCOM 3.3 V+3VCOM 3 47 WE\_ROM 0.0 WE\_ROM 4 46 PC\_V 0.0 PC\_V 5 45 GND GND 6 0.0 44 PC\_H 0.0 PC\_H 7 43 GND 0.0 GND 8 9 42 NC NC 41 GND 10 GND 0.0 40 NC NC 11 12 39 GND 0.0 GND 38 NC NC 13 37 GND 0.0 GND 14 36 GND GND 15 0.0 35 PC\_RCH 4.4 PC\_RCH 16 34 GND 0.0 GND 17 33 PC\_LCH 4.4 PC\_LCH 18 32 GND 0.0 GND 19 31 V4\_R 4.4 V4\_R 20 30 GND 0.0 GND 21 29 V4\_L 4.4 V4\_L 22 28 GND 0.0 GND 23 27 GND 0.0 GND 24 26 V4\_V 3.9 V4\_V 25 25 GND 0.0 GND 26 24 V4\_S2 27 V4\_S2 0.1 23 V4\_SPLUG 4.9 V4\_SPLUG 28 22 GND 0.0 GND 29 21 V4\_C 4.4 V4\_C 30 20 GND 0.0 GND 31 V4 Y V4\_Y 32 19 3.9 GND GND 33 18 0.0 GND GND 34 17 0.0 16 NC NC 35 36 15 NC NC 37 14 GND GND 0.0 13 NC \_ NC 38 12 GND 0.0 GND 39 11 GND 40 GND 0.0 10 Y\_COMP4 4.6 Y\_COMP4 41 9 GND 0.0 GND 42 43 8 GND GND 0.0 7 PB\_COMP4 PB\_COMP4 44 4.6 6 GND 0.0 GND 45 5 GND 0.0 GND 46 47 PR\_COMP4 PR\_COMP4 4 4.6 3 GND 0.0 GND 48 2 GND 49 GND 0.0 COMP\_PLUG COMP\_PLUG 50 0.0

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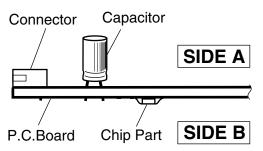
# 4. PCB CONNECTION DIAGRAM

#### **NOTE FOR PCB DIAGRAMS:**

- Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
(0 0 0 B C E	B B C C C C C C C C C C C C C C C C C C	Transistor
● <b>○○○</b> B C E	E O	Transistor with resistor
(0 0 0) D G S		Field effect transistor
@00 <u>%</u> 000X	***************************************	Resistor array
000		3-terminal regulator

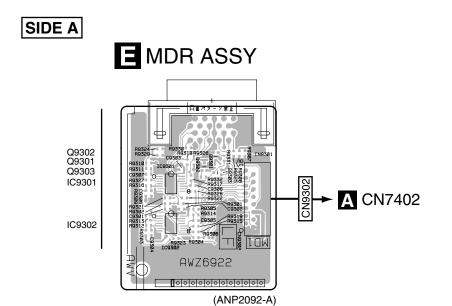
- The parts mounted on this PCB include all necessary parts fo several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



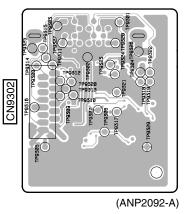
В

SIDE B

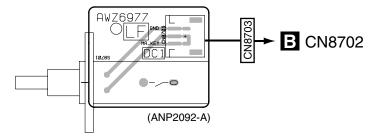
#### 4.1 SW and MDR ASSYS



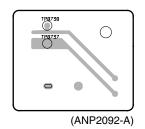








J SW ASSY







PDP-R05U

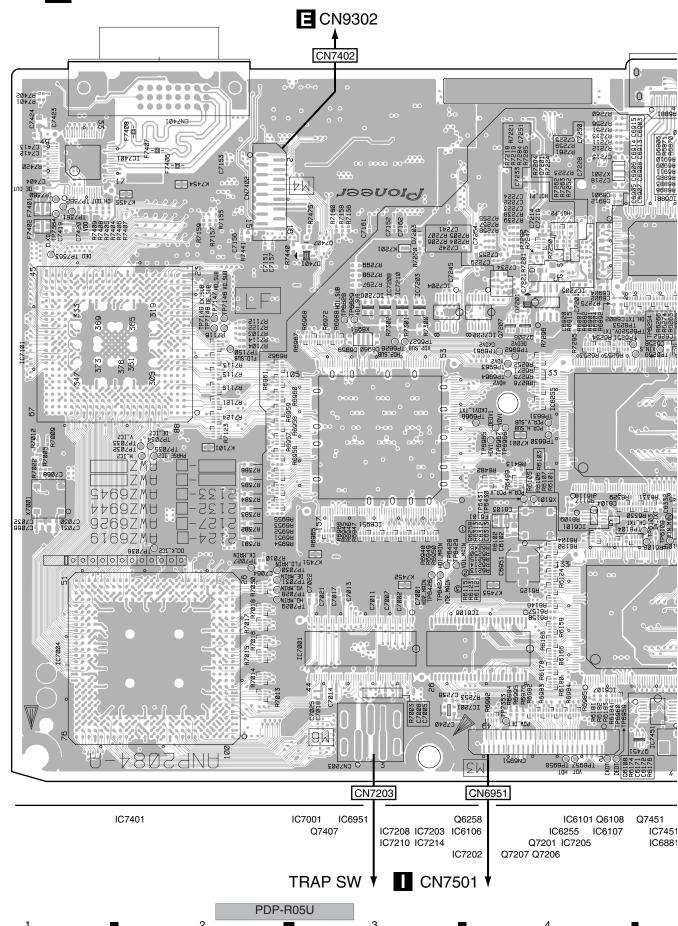
7

R

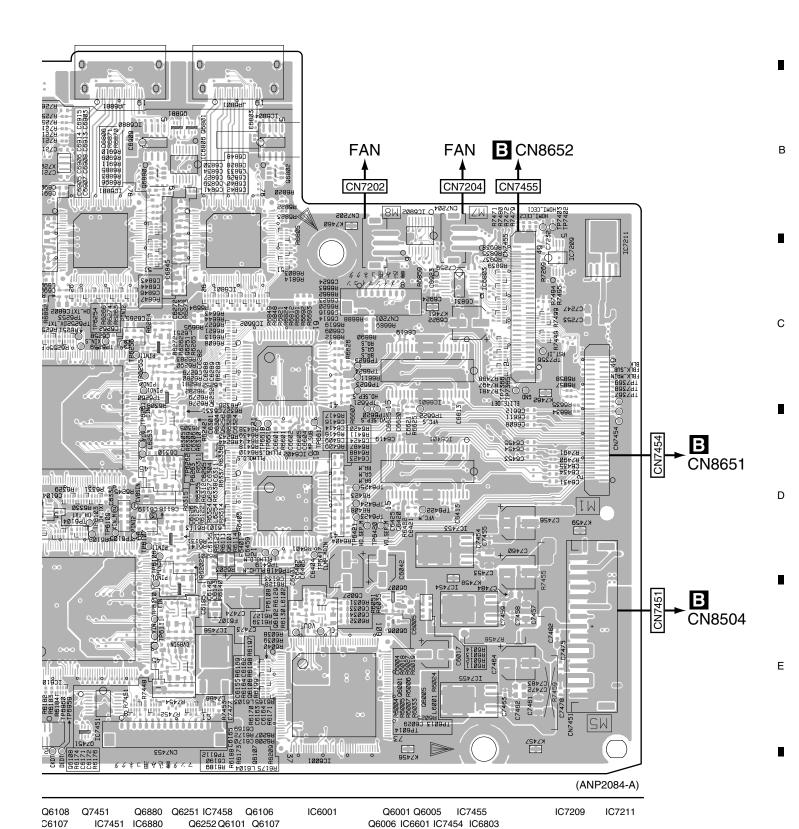
#### 4.2 MR MAIN BOARD ASSY

SIDE A

## A MR MAIN BOARD ASSY



### SIDE A



PDP-R05U

Q6007 IC6401 IC7453

IC6802

IC6881

Q6881 Q6257

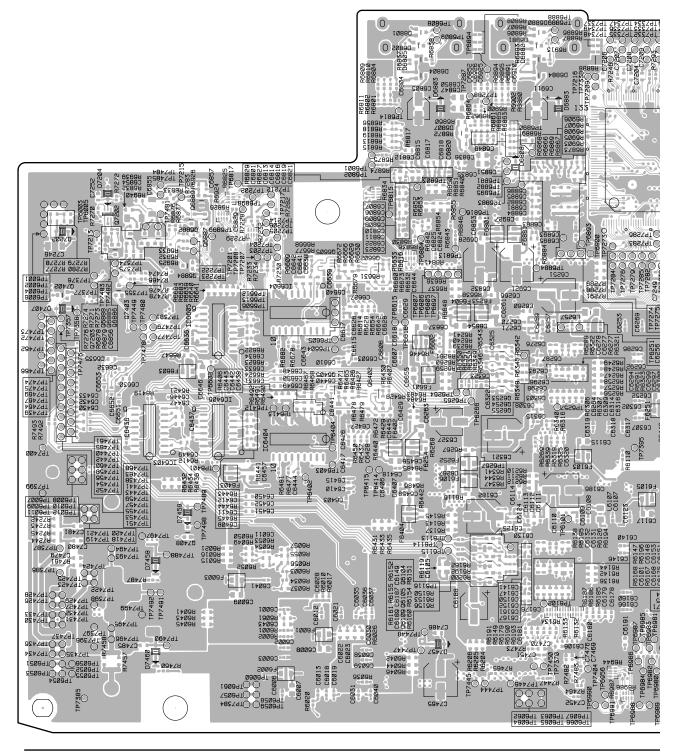
IC6602 Q6102

IC6801 Q6256 Q6802 IC6402

Q6801 Q6806 IC6804

В

## A MR MAIN BOARD ASSY



Q7402 Q6886 Q7408 IC6406 IC6404 Q6405 Q6402 Q6109 Q6255 Q7203 Q7202 IC6403 Q6884 Q6887 IC6604 Q6605 Q6602 Q6105 Q6254 Q7403 Q6889 IC6605 Q6104 Q6253 Q6882

**A** 

PDP-R05U

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IC7404

Q7401

IC7403

123

PDP-R05U

IC7151 Q7406

Q7405 Q7409 Q7404

IC7002

IC6603 IC6607

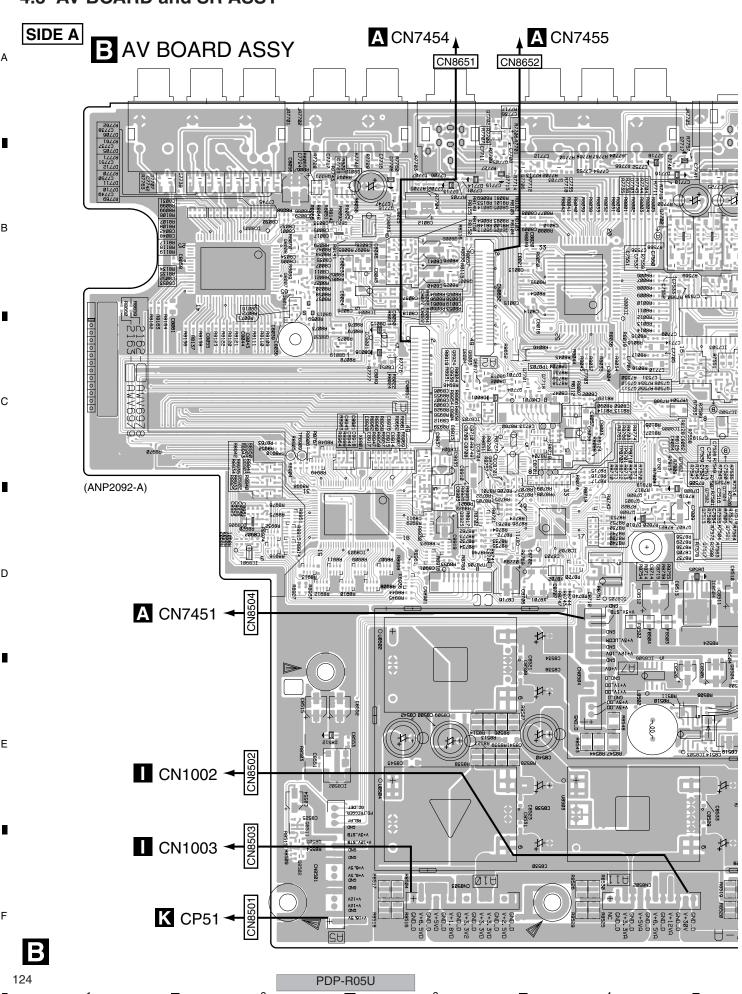
IC7152

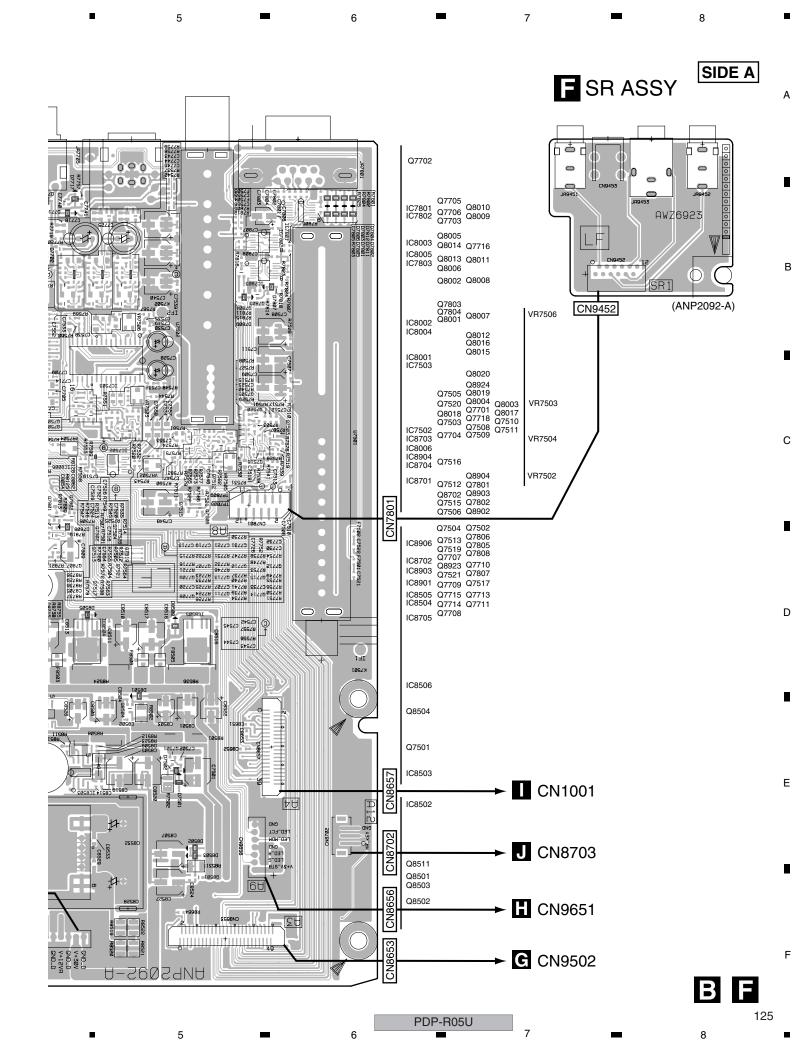
Q6103

IC6405 IC7452

IC7207 Q6601 Q6401

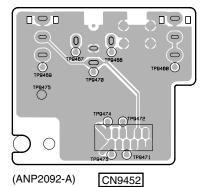
#### 4.3 AV BOARD and SR ASSY

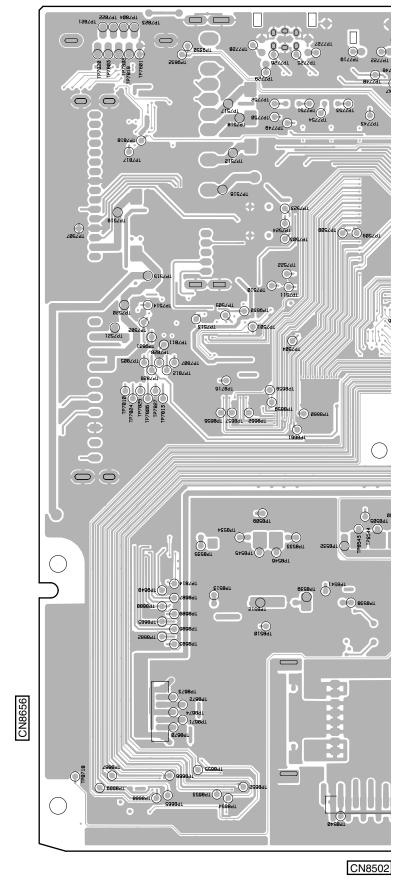




В

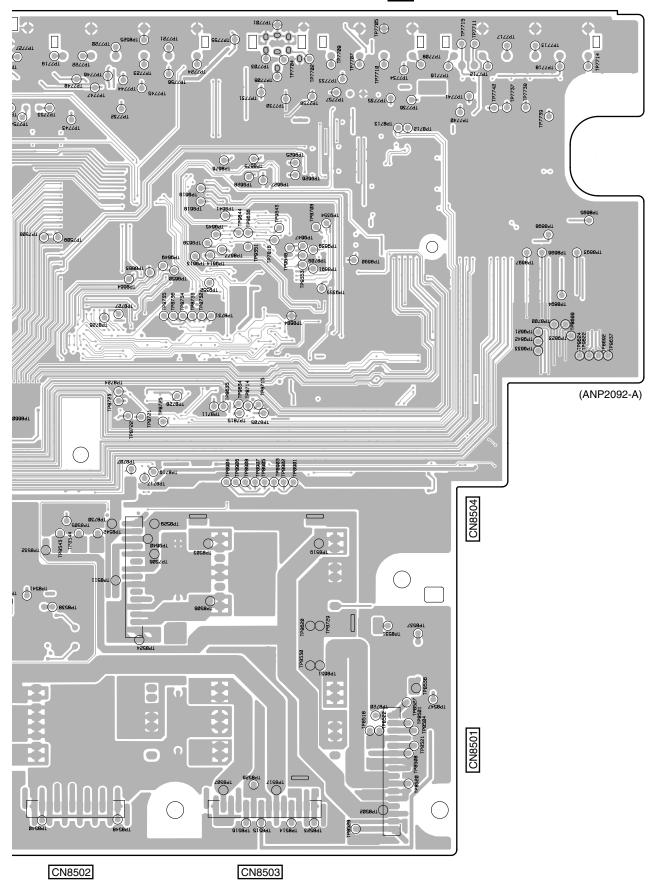
F SR ASSY





PDP-R05U

# **B** AV BOARD ASSY



PDP-R05U

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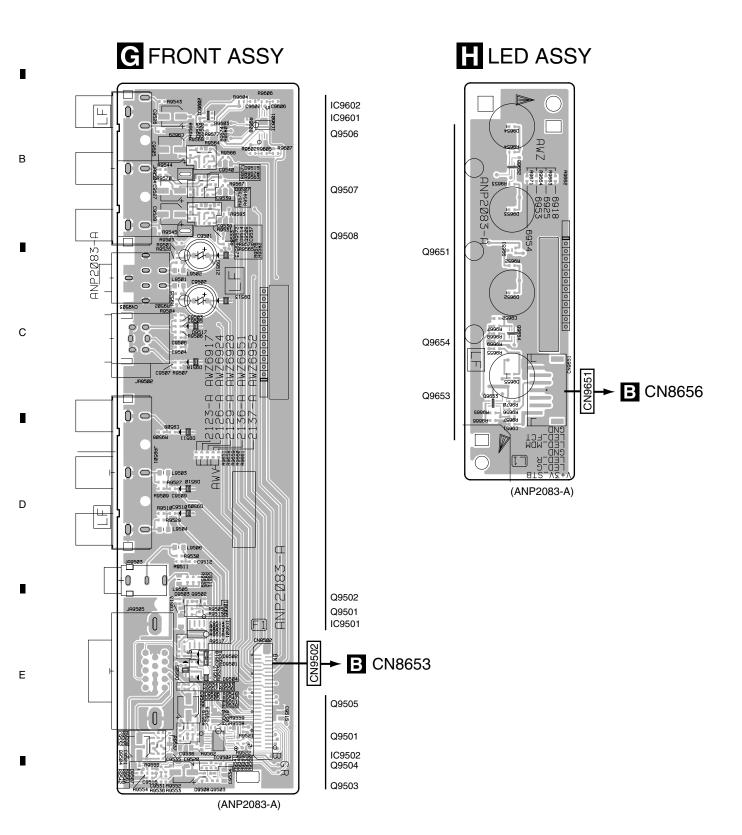
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В



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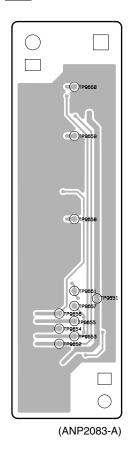
G H

PDP-R05U

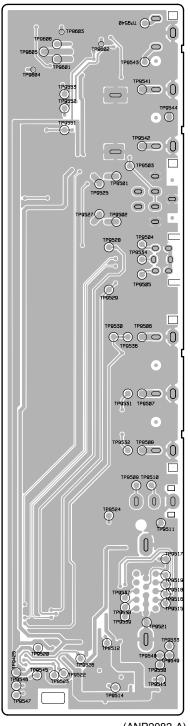
GH

SIDE B SIDE B

# LED ASSY



# **G** FRONT ASSY







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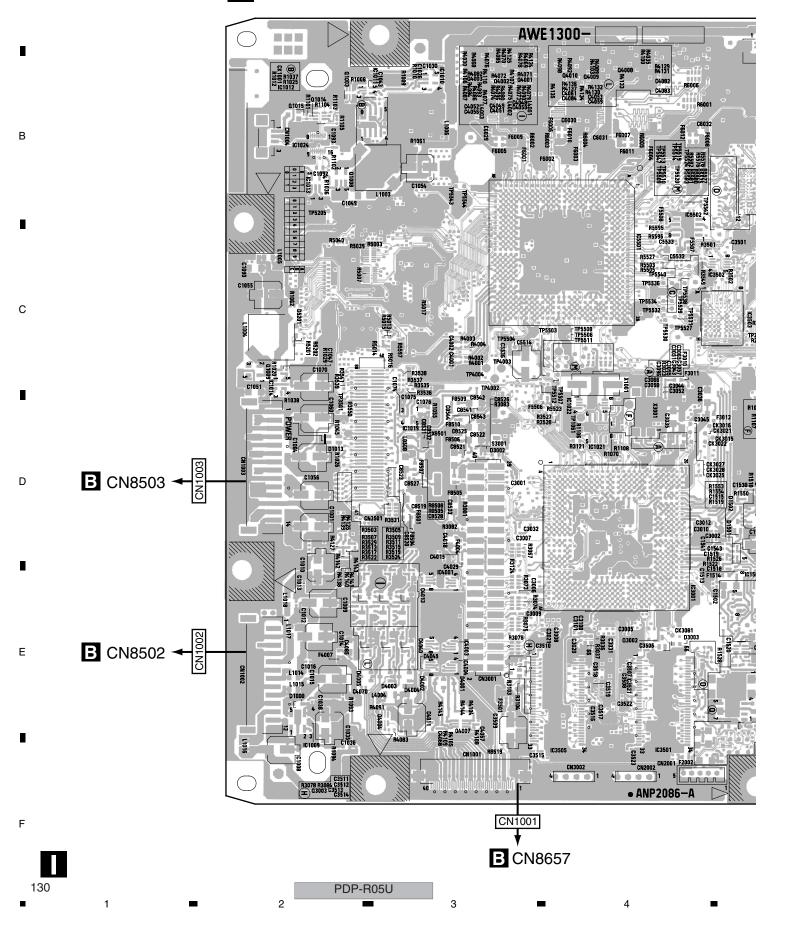
PDP-R05U

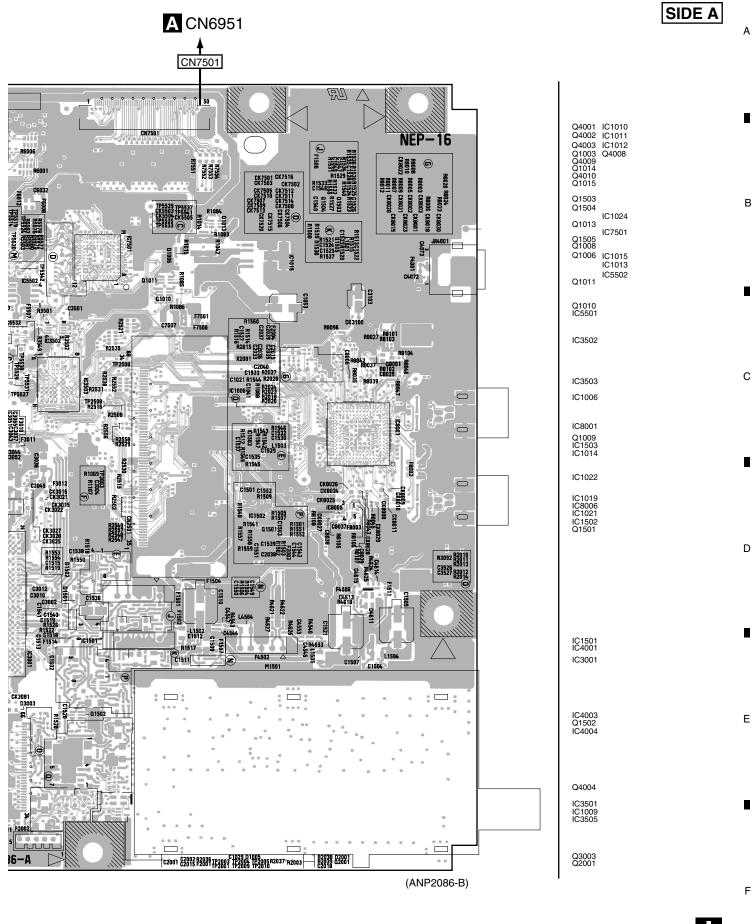
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#### 4.5 TUNER BOARD ASSY

SIDE A

## TUNER BOARD ASSY





PDP-R05U

IC6001 IC6002 IC6003 IC6004

IC3004

IC7502

IC7503 IC4610 IC7504 IC7505 Q1012

IC8004 Q1005

IC8003 IC8005

IC8002 IC2502 IC2505

IC2506 IC2503

IC8501 IC2504 IC2501

IC1008 IC1007

IC1004

IC1023 IC4007 IC4005

IC1016

Q8503

IC4503 IC4005 IC3003 IC4501

Q4006 IC4006 Q1001 IC2002

IC5201

# TUNER BOARD ASSY

TP7511 TP7502
TP7503 TP7505 TP7509 TP7521 TP7506 TP7510
TP7520 TP7501 TP7507 TP7513 TP7504 C7503 R7515 C2506 CK3092 C2026 C2026 C2011 P2007 C2028 C2013

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HTP1209 C4014 C4028 C4024 R4017 R4037 SE SE R4022 R4014 R4005 R4012 4 TP1206 1 TP1207

(ANP2086-B)

PDP-R05U

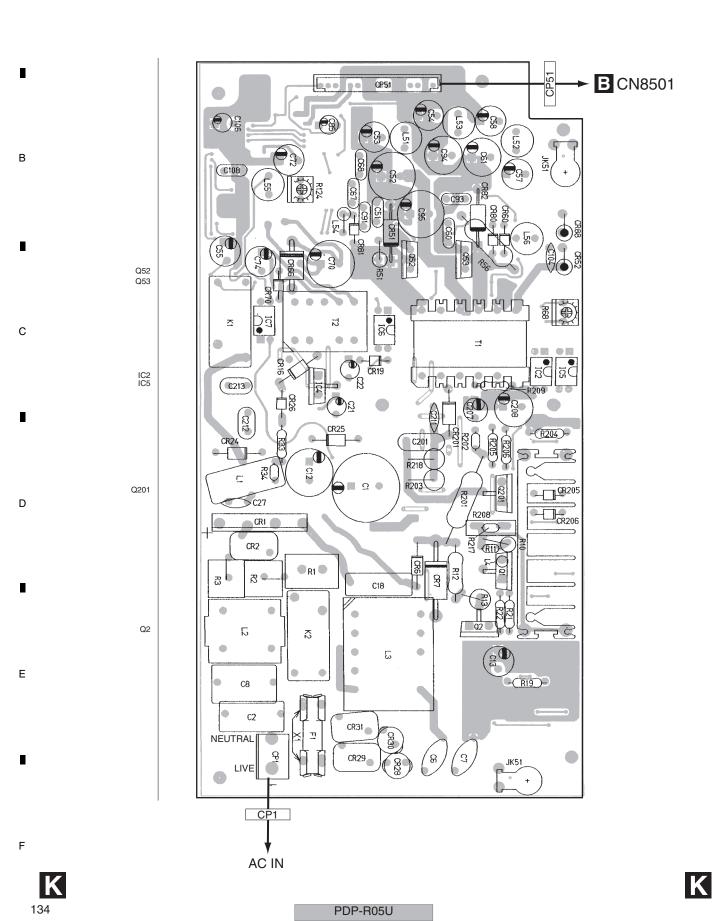
В

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### 4.6 POWER SUPPLY UNIT

SIDE A K POWER SUPPLY UNIT

SIDE A



SIDE B K POWER SUPPLY UNIT

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SIDE B

CP51 R100 150 67 HC 150 198 CR203 CT E207 C 0 0

Q51 Q59 Q61 Q54

В

С

D

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Q55 IC57 Q56 Q60

IC52

IC1

IC3

CP1

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PDP-R05U

135

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K

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### 5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{-1} \rightarrow 5621 \cdots RN1/4PC \boxed{5} \boxed{6} \boxed{2} \boxed{1} F$ 

#### LIST OF ASSEMBLIES

<u>Mark</u>	Symbol and Description	PDP-R05U/ KUC	PRO-R05U/ KUC
NSP	1MR AV BOARD ASSY	AWV2162	AWV2163
	2AV BOARD ASSY	AWZ6978	AWZ6979
	2MDR ASSY	AWZ6922	AWZ6922
	2SR ASSY	AWZ6923	AWZ6923
	2SW ASSY	AWZ6977	AWZ6977
NSP	1MR FUKUGOU BOARD ASSY	AWV2126	AWV2129
	2FRONT ASSY	AWZ6924	AWZ6928
	2LED ASSY	AWZ6925	AWZ6925
NSP	1MR MAIN BOARD ASSY	AWV2127	AWV2127
	2MAIN BOARD ASSY	AWZ6926	AWZ6926
	1TUNER BOARD ASSY	AWE1300	AWE1300
<u> </u>	1POWER SUPPLY UNIT	AXY1091	AXY1091

#### CONTRAST OF PCB ASSEMBLIES

# B AV BOARD ASSY

AWZ6978 and AWZ6979 are constructed the same except for the following:

Mark	Symbol and	<u>Description</u>	<u>AWZ6978</u>	<u>AWZ6979</u>
	R8652		RS1/16S102J	Not used
	R8659		RS1/16S0R0J	Not used
	R8660		Not used	RS1/16S0R0J
	JA7701 6P PIN JA0	CK	AKB1297	AKB1298
	JA7702 4P PIN JAC	CK	AKB1313	AKB1302
	JA7703 PINJACK+	MINI DIN 4P	AKB1314	AKB1309
	JA7704 6P PIN JAC	CK	AKB1295	AKB1312
	JA7705 2P 4 PIN M	IINI DIN (S)	AKP1234	AKP1235

# G FRONT ASSY

AWZ6924 and AWZ6928 are constructed the same except for the following:

Mark	Symbol and Description	AWZ6924	AWZ6928
	R9658	RS1/16S0R0J	Not used
	R9659	Not used	RS1/16S0R0J
	JA9501 4P PIN JACK	AKB1303	AKB1304
	JA9502 4P MINI DIN (S)	AKP1238	AKP1239
	JA9504 3P PIN JACK	AKB1305	AKB1306

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<u>lark No.</u>	Description	Part No.	Mark No. Description	Part No.	
A MR MA	AIN BOARD AS	SV.	SEMICONDUCTORS		
GCR BLOCK		51	SEMICONDUCTORS IC6106	HY57V161610ETP-8	
ESISTORS	<b>'</b> ]		Q6104,Q6105,Q6109	2SA1586	
	2 D6001 D6041 D6049	RS1/16S0R0J	Q6103	RN1303	
R6045	6,R6021,R6041,R6043	RS1/16S0R0J	40.00		
H0045		NO 1/ 1000N00	COILS AND FILTERS		
			F6104	CCG1162	
ICHEL MAIN E	BLOCK]				
<b>EMICONDU</b>			<u>CAPACITORS</u>		
IC6107		PD0278A	C6266,C6267	CCSRCH470J50	
IC6101		TC7W126FU	C6184	CEHVKW101M6R3	
Q6108		2SA1586	C6149,C6156-C6159,C6173,C6174	CKSSYF104Z16	
Q6101,Q6102		HN1A01FU	C6183,C6187,C6189	CKSSYF104Z16	
Q6106,Q6107	7	HN1B04FU	DE01070D0		
011 0 4 1 1 0	EU TEDO		RESISTORS		
OILS AND			R6132-R6134	RAB4CQ103J	
,	,F6105-F6107	CCG1162	R6146,R6159,R6163,R6166,R6178	RAB4CQ330J	
EMI FILT	EH	L CTAMOOO IOFOO	R6180,R6184 Other Resistors	RAB4CQ330J RS1/16SS###J	
L6107 L6101-L6104		LCTAW220J2520 LCYC6R8K2125	Other nesistors	NO 1/ 1000###0	
L0101-L0104		ECT COHONZ 125			
APACITOR	9		[MICHEL SUB BLOCK]		
C6102 (10/6.3		ACG7046	SEMICONDUCTORS		
	2,C6163,C6164	CCSRCH330J50	IC6255	PD0278A	
C6171,C6172		CCSRCH330J50	Q6258	2SA1586	
C6127,C6143		CCSRCH680J50	Q6251,Q6252	HN1A01FU	
C6182,C6186		CEHVKW101M6R3	Q6256,Q6257	HN1B04FU	
C6188		CEHVKW470M6R3	COILS AND FILTERS		
C6151		CKSQYB225K10	F6251-F6254 EMI FILTER	CCG1162	
C6112,C6114		CKSRYB102K50	L6257	LCTAW220J2520	
	6,C6153,C6154	CKSRYB104K16	L6251-L6254	LCYC6R8K2125	
C6168,C6169	9,C6177,C6185	CKSRYB104K16			
C6101 C6155	5,C6175,C6190	CKSRYB105K6R3	<u>CAPACITORS</u>		
	1,C6107-C6111,C6113	CKSSYF104Z16	C6272,C6288,C6305,C6306	CCSRCH330J50	
,	3-C6125,C6130-C6133	CKSSYF104Z16	C6312,C6313	CCSRCH330J50	
	I,C6146-C6148,C6150	CKSSYF104Z16	C6273,C6289	CCSRCH680J50	
	)-C6162,C6165-C6167	CKSSYF104Z16	C6251,C6321 C6327	CEHVKW101M6R3 CEHVKW470M6R3	
			C6327	CETYKW470W6H3	
C6170,C6176	6,C6178-C6181	CKSSYF104Z16	C6297	CKSQYB225K10	
			C6258,C6260	CKSRYB102K50	
<u>ESISTORS</u>			C6265,C6282,C6299,C6300	CKSRYB104K16	
R6101,R6104	1-R6106,R6120	RAB4CQ100J	C6309,C6310,C6316,C6324	CKSRYB104K16	
R6124,R6125		RAB4CQ100J	C6264,C6295,C6301,C6314	CKSRYB105K6R3	
	7,R6142-R6145	RS1/16S0R0J			
R6194-R6196		RS1/16S1000F	C6253-C6257,C6259,C6262	CKSSYF104Z16	
R6115,R6131	I	RS1/16S100J	C6269-C6271,C6276-C6279	CKSSYF104Z16	
R6107 P6207	7	RS1/16S103 I	C6286,C6287,C6292-C6294,C6296	CKSSYF104Z16	
R6197,R6207 R6147		RS1/16S103J RS1/16S1301F	C6298,C6302-C6304,C6307,C6308	CKSSYF104Z16	
R6198,R6208	3	RS1/16S183J	C6311,C6315,C6317-C6320,C6331	CKSSYF104Z16	
R6113,R6129		RS1/16S221J	RESISTORS		
R6126,R6138		RS1/16S2701F		DAD4CO100 I	
			R6251-R6254,R6271,R6275,R6276 R6329-R6331	RAB4CQ100J RAB4CQ103J	
	3,R6128,R6141,R6165	RS1/16S271J	R6256-R6261	RS1/16S0R0J	
R6175		RS1/16S271J	R6321-R6323	RS1/16S1000F	
	I,R6174,R6176	RS1/16S331J	R6266,R6283	RS1/16S100J	
R6169,R6172		RS1/16S471J			
R6122,R6140	J	RS1/16S473J	R6326,R6336	RS1/16S103J	
R6167,R6168	3	RS1/16S8201F	R6291	RS1/16S1301F	
Other Resisto		RS1/16SS###J	R6327,R6337	RS1/16S183J	
J.1.01 1 1001010		. 10 1/ 1000111110	R6264,R6281	RS1/16S221J	
THERS			R6277,R6288	RS1/16S2701F	
	STAL OSCILLATOR	ASS1175	R6263,R6274,R6280,R6290,R6305	RS1/16S271J	
(27MHz)	000iLL (1011		R6314	RS1/16S271J	
,,			R6309,R6310,R6313,R6315	RS1/16S331J	
				1.0.7,1000010	137
			PDP-R05U		

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	Mark No. Descripti		Mark No. Description	Part No.
	R6308,R6311,R6335 R6273,R6289	RS1/16S471J RS1/16S473J	[AD SUB BLOCK] SEMICONDUCTORS	
Α	R6306,R6307 Other Resistors	RS1/16S8201F RS1/16SS###J	IC6602 IC6604 IC6601	AD80058 BA7078AF SM5301BS
	[AD MAIN BLOCK] SEMICONDUCTORS		IC6603,IC6607 Q6605	TC74VHC126FT HN1B04FU
	IC6402 IC6404	AD80058 BA7078AF	Q6601	RN1303
	IC6401 IC6405,IC6408 Q6405	SM5301BS TC74VHC126FT HN1B04FU	COILS AND FILTERS F6601-F6604 EMI FILTER	CCG1162
В	Q6401	RN1303	CAPACITORS  C6622,C6640 (10/6.3)  C6644	ACG7046 CCSRCH151J50
	F6401-F6404 EMI FILTER  CAPACITORS	CCG1162	C6638 C6604,C6624 C6608,C6611,C6612,C6621,C6631	CKSRYB103K50 CKSRYB104K16 CKSRYB105K6R3
_	C6422,C6441 (10/6.3)	ACG7046	C6633,C6634	CKSRYB105K6R3
	C6445 C6438	CCSRCH151J50 CKSRYB103K50	C6609,C6614,C6623 C6642	CKSRYB473K16 CKSRYB474K10
	C6404,C6424 C6408,C6411,C6412,C6421,C	CKSRYB104K16	C6641 C6602	CKSRYB562K50 CKSRYB822K50
	C6434,C6435	CKSRYB105K6R3	C6601	CKSRYB823K16
С	C6409,C6414,C6423 C6443	CKSRYB473K16 CKSRYB474K10	C6603,C6605-C6607,C6610,C6613 C6615-C6620,C6625-C6629,C6639	CKSSYF104Z16 CKSSYF104Z16
	C6442 C6402	CKSRYB562K50 CKSRYB822K50	C6643,C6645,C6647	CKSSYF104Z16
	00404	01/07/70001/40	<u>RESISTORS</u>	
_	C6401 C6403,C6405-C6407,C6410,C	CKSRYB823K16 6413 CKSSYF104Z16	R6681,R6685 R6608,R6613,R6621,R6627	RAB4CQ101J RAB4CQ330J
	C6415-C6420,C6425-C6429 C6439,C6440,C6444,C6448	CKSSYF104Z16 CKSSYF104Z16	R6643,R6644 R6628,R6636-R6641 R6607,R6611,R6612,R6619,R6620	RAB4CQ330J RS1/16S0R0J RS1/16S1000F
	RESISTORS R6482.R6489	RAB4CQ101J	R6626	RS1/16S1000F
	R6405,R6410,R6418,R6424	RAB4CQ330J	R6609	RS1/16S104J
D	R6438,R6439	RAB4CQ330J	R6625	RS1/16S1101F
	R6420,R6431-R6436 R6404,R6408,R6409,R6416,R	RS1/16S0R0J 6417 RS1/16S1000F	R6679 R6673	RS1/16S153J RS1/16S221J
	D0400	D04/4004000E	Pagga	D04/4000001
	R6423 R6406	RS1/16S1000F RS1/16S104J	R6680 R6617	RS1/16S222J RS1/16S224J
	R6422	RS1/16S1101F	R6601	RS1/16S2701F
	R6478 R6472	RS1/16S153J RS1/16S221J	R6610 R6666	RS1/16S472J RS1/16S682J
	R6479	RS1/16S222J	Other Resistors	RS1/16SS###J
	R6414	RS1/16S224J		
Е	R6401 R6413	RS1/16S2701F RS1/16S472J	[HDMI RX BLOCK]	
	R6465	RS1/16S682J	SEMICONDUCTORS	
	Olle and Descriptions	DO4/4.000/////	IC6880	BR24L02FJ-W
	Other Resistors	RS1/16SS###J	IC6803 IC6881	PCM1742KE SII9993CTG100
			IC6806	TC74HC4538AFT
	SEMICONDUCTORS IC6406	MM1389XFBE	Q6888,Q6889	2SA1586
	CAPACITORS		Q6885,Q6886 Q6884,Q6887	2SC4116 RN1303
	C6450-C6455	CKSRYB105K6R3	Q6684,Q6667 Q6881	RN1902
	C6437	CKSSYF104Z16	Q6882	RN2303
F	DECICTODS		Q6880	SM6K2
	RESISTORS All Resistors	RS1/16SS###J	D6880,D6881 D6808	1SS302 1SS355
	138	DDD	DOELL	
	138 1 ■	PDP- 2	R05U 3 ■	4

Mark No. D6806,D6807	<u>Description</u>		<b>■</b> 7	8	
	Description	Part No.	Mark No. Description	Part No.	
	7,D6884	DAN202U	C6811,C6812,C6815,C6816,C6819	CKSSYF104Z16	
D6883		UDZS6R8(B)	C6821,C6822,C6825,C6828,C6829	CKSSYF104Z16	
			C6833,C6835,C6840,C6842,C6843	CKSSYF104Z16	
OILS AND			C6852	CKSSYF104Z16	
F6881 EMIF	FILTER	CCG1162	DE01070D0		
	_		RESISTORS		
APACITOR			R6825,R6849	RAB4CQ101J	
	9,C6851 (10/6.3)	ACG7046	R6848	RAB4CQ220J	
	2,C6884,C6886	CCSRCH101J50	R6803,R6805,R6812,R6814,R6821	RAB4CQ470J	
•	9,C6892,C6895,C6896	CCSRCH101J50	R6824 R6817	RAB4CQ470J RS1/16S3900F	
	2,C6905,C6906,C6915	CCSRCH101J50	N0017	NO 1/ 1000900F	
C6917		CCSRCH101J50	R6847	RS1/16S3901F	
C6927,C6928	₹	CCSRCH221J50	R6860	RS1/16S473J	
C6921,C6922		CEHVKW101M6R3	Other Resistors	RS1/16SS###J	
C6911	-	CEHVKW220M6R3			
C6913		CKSRYB104K16	OTHERS		
C6920		CKSRYB473K16	JA6801 HDMI CONNECTOR	AKP1232	
,	3,C6856,C6857,C6881	CKSSYF104Z16			
·	5,C6887,C6890,C6891	CKSSYF104Z16	<u>CAPACITORS</u>		
•	4,C6897,C6898	CKSSYF104Z16	C6853	CCSRCH470J50	
	4,C6907-C6910,C6912	CKSSYF104Z16			
C6916,C6923	3-C6926	CKSSYF104Z16			
C6954 C6951	5 (10uE/16\/\	DCH1165	[ROZ BLOCK]		
C6854,C6855	) (10UF/10V)	DCH1165	<u>SEMICONDUCTORS</u>		
ESISTORS			IC6951	PD6435A	
		DAD400101 I	Q6951	RN1303	
	3,R6885,R6892,R6896	RAB4CQ101J			
R6901,R6904 R6859	ŀ	RAB4CQ101J RS1/16S0R0J	<u>CAPACITORS</u>		
R6939,R6940	1	RS1/16S104J	C6959,C6960	CCSRCH150J50	
R6832,R6833		RS1/16S222J	C6951	CEHVKW101M6R3	
110002,110000	,	113 1/1032223	C6952-C6954,C6956-C6958	CKSSYF104Z16	
R6889		RS1/16S3900F	C6961,C6962,C6964-C6968	CKSSYF104Z16	
R6915		RS1/16S3901F			
R6872		RS1/16S473J	<u>RESISTORS</u>		
Other Resisto	ors	RS1/16SS###J	R6951-R6953,R6956-R6962,R6966	RAB4CQ100J	
			R6968,R6972	RAB4CQ100J	
<u> THERS</u>			R6945,R6946,R6988	RAB4CQ103J	
JA6881 HDN	MI CONNECTOR	AKP1232	Other Resistors	RS1/16SS###J	
			OTHERS		
			X6951 CERAMIC RESONATOR	ASS1169	
EMICONDU	<u>JCTORS</u>		A0001 OEITAMIO NEGONATORI	A001100	
IC6804		BR24L02FJ-W			
IC6801		SII9993CTG100	<u>RESISTORS</u>		
IC6802		TC74VHC157FT	R6982-R6986,R6992	RAB4CQ101J	
Q6801		RN1902	Other Resistors	RS1/16SS###J	
Q6802		SM6K2	OTHERS	, 1000	
D6801,D6802	)	1SS302	CN6951 50P CONNECTER	AKM1201	
D6804	-	DAN202U	S. 13331 OU GOINNEOTEIT	7 H MITTLE	
D6803		UDZS6R8(B)			
D0000		/ <del>-</del> /	[CELIA BLOCK]		
D0003			SEMICONDUCTORS		
	FILTERS				
		CCG1162		HY57V643220CT-7	
OILS AND		CCG1162	IC7001,IC7002 IC7004	HY57V643220CT-7 PE5362A	
F6801 EMIF	FILTER	CCG1162	IC7001,IC7002		
F6801 EMIF	FILTER	CCG1162 ACG7046	IC7001,IC7002 IC7004	PE5362A	
F6801 EMIF C6845,C6847	FILTER <b>S</b> 7,C6850 (10/6.3)		IC7001,IC7002 IC7004	PE5362A	
F6801 EMI F C6845,C6847 C6801,C6806	FILTER  S	ACG7046	IC7001,IC7002 IC7004 IC7003	PE5362A	
F6801 EMI F C6845,C6847 C6801,C6806 C6813,C6814	FILTER  5,C6850 (10/6.3) 6,C6808,C6810	ACG7046 CCSRCH101J50	IC7001,IC7002 IC7004 IC7003	PE5362A TC74LCX125FT	
F6801 EMI F 6801 EMI F 6845,C6847 6801,C6806 6813,C6814	S_ 7,C6850 (10/6.3) 6,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836	ACG7046 CCSRCH101J50 CCSRCH101J50	IC7001,IC7002 IC7004 IC7003	PE5362A TC74LCX125FT	
F6801 EMI F F6801 EMI F C6845,C6847 C6801,C6806 C6813,C6814 C6823,C6824 C6839,C6841	S_ 7,C6850 (10/6.3) 6,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50	IC7001,IC7002 IC7004 IC7003 COILS AND FILTERS F7001,F7002 EMI FILTER	PE5362A TC74LCX125FT	
F6801 EMI F F6801 EMI F C6845,C6847 C6801,C6806 C6813,C6814 C6823,C6824 C6839,C6841	S_ 7,C6850 (10/6.3) 6,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CEHVKW101M6R3	IC7001,IC7002 IC7004 IC7003  COILS AND FILTERS F7001,F7002 EMI FILTER  CAPACITORS	PE5362A TC74LCX125FT CCG1162	
COILS AND F6801 EMI F CAPACITORS C6845,C6847 C6801,C6806 C6813,C6814 C6823,C6824 C6839,C6841 C6832 C6805	S_ 7,C6850 (10/6.3) 6,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CEHVKW101M6R3 CEHVKW220M6R3	IC7001,IC7002 IC7004 IC7003 COILS AND FILTERS F7001,F7002 EMI FILTER  CAPACITORS  C7031 (10/6.3)	PE5362A TC74LCX125FT CCG1162 ACG7046	
COILS AND F6801 EMI F CAPACITORS C6845,C6847 C6801,C6806 C6813,C6814 C6823,C6824 C6839,C6841 C6832 C6805 C6826	S_ 7,C6850 (10/6.3) 6,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CEHVKW101M6R3 CEHVKW220M6R3 CKSRYB104K16	IC7001,IC7002 IC7004 IC7003 COILS AND FILTERS F7001,F7002 EMI FILTER  CAPACITORS  C7031 (10/6.3)  C7029,C7041 (330uF/6.3V)  C7064  C7025,C7066,C7067	PE5362A TC74LCX125FT CCG1162 ACG7046 ACH1365	
COILS AND F6801 EMI F CAPACITORS C6845,C6847 C6801,C6806 C6813,C6814 C6823,C6824 C6839,C6841 C6832 C6805 C6826 C6846	S_ 7,C6850 (10/6.3) 5,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836 1,C6844	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CEHVKW101M6R3 CEHVKW220M6R3 CKSRYB104K16 CKSRYB473K16	IC7001,IC7002 IC7004 IC7003 COILS AND FILTERS F7001,F7002 EMI FILTER  CAPACITORS  C7031 (10/6.3)  C7029,C7041 (330uF/6.3V)  C7064	PE5362A TC74LCX125FT CCG1162 ACG7046 ACH1365 CCSRCH100D50	
COILS AND F6801 EMI F CAPACITORS C6845, C6847 C6801, C6806 C6813, C6814 C6823, C6824 C6839, C6841 C6832 C6805 C6826 C6846	S_ 7,C6850 (10/6.3) 6,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CEHVKW101M6R3 CEHVKW220M6R3 CKSRYB104K16	IC7001,IC7002 IC7004 IC7003  COILS AND FILTERS F7001,F7002 EMI FILTER  CAPACITORS  C7031 (10/6.3) C7029,C7041 (330uF/6.3V) C7064 C7025,C7066,C7067 C7001-C7024,C7026-C7028	PE5362A TC74LCX125FT CCG1162 ACG7046 ACH1365 CCSRCH100D50 CCSRCH221J50 CKSSYF104Z16	
COILS AND F6801 EMI F CAPACITORS C6845, C6847 C6801, C6806 C6813, C6814 C6823, C6824 C6839, C6841 C6832 C6805 C6826 C6846	S_ 7,C6850 (10/6.3) 5,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836 1,C6844	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CEHVKW101M6R3 CEHVKW220M6R3 CKSRYB104K16 CKSRYB473K16	IC7001,IC7002 IC7004 IC7003 COILS AND FILTERS F7001,F7002 EMI FILTER  CAPACITORS  C7031 (10/6.3)  C7029,C7041 (330uF/6.3V)  C7064  C7025,C7066,C7067	PE5362A TC74LCX125FT CCG1162 ACG7046 ACH1365 CCSRCH100D50 CCSRCH221J50	
COILS AND F6801 EMI F CAPACITORS C6845,C6847 C6801,C6806 C6813,C6814 C6823,C6824 C6839,C6841 C6832 C6805 C6826 C6846	S_ 7,C6850 (10/6.3) 5,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836 1,C6844	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CEHVKW101M6R3 CEHVKW220M6R3 CKSRYB104K16 CKSRYB473K16 CKSSYF104Z16	IC7001,IC7002 IC7004 IC7003  COILS AND FILTERS F7001,F7002 EMI FILTER  CAPACITORS  C7031 (10/6.3) C7029,C7041 (330uF/6.3V) C7064 C7025,C7066,C7067 C7001-C7024,C7026-C7028  C7032-C7040,C7042-C7063	PE5362A TC74LCX125FT CCG1162 ACG7046 ACH1365 CCSRCH100D50 CCSRCH221J50 CKSSYF104Z16	139
COILS AND F6801 EMI F CAPACITORS C6845,C6847 C6801,C6806 C6813,C6814 C6823,C6824 C6839,C6841 C6832 C6805 C6826 C6846	S_ 7,C6850 (10/6.3) 5,C6808,C6810 4,C6817,C6818,C6820 4,C6830,C6834,C6836 1,C6844	ACG7046 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CEHVKW101M6R3 CEHVKW220M6R3 CKSRYB104K16 CKSRYB473K16 CKSSYF104Z16	IC7001,IC7002 IC7004 IC7003  COILS AND FILTERS F7001,F7002 EMI FILTER  CAPACITORS  C7031 (10/6.3) C7029,C7041 (330uF/6.3V) C7064 C7025,C7066,C7067 C7001-C7024,C7026-C7028	PE5362A TC74LCX125FT CCG1162 ACG7046 ACH1365 CCSRCH100D50 CCSRCH221J50 CKSSYF104Z16	139

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	Mark No.	Description	Part No.		Mark No		Description	Part No.	
		•			R7201		•	RAB4CQ472J	
	RESISTORS					R7245,R7	7275,R7286,R7287	RS1/16S0R0J	
	R7013-R7018,R7	030	RAB4CQ220J		R7290,I	R7295-R	7306	RS1/16S0R0J	
	R7007		RS1/16S220J		R7269			RS1/16S101J	
	Other Resistors		RS1/16SS###J						
					R7278			RS1/16S2201F	
	<u>OTHERS</u>				R7215			RS1/16S223J RS1/16S4700F	
	X7001 CRYSTAL	LOSCILLATOR	ASS1174		R7279 R7227,I	R7260		RS1/16S4700F RS1/16S473J	
	(85MHz)				R7224	117200		RS1/16S682J	
	[MIKE BLOCK]				R7280			RS1/16S7500F	
	SEMICONDUCT	OBS			R7277			RS1/16S8201F	
	IC7152	0113	MBM29PL3200BE70PFV		Other R	lesistors		RS1/16SS###J	
	IC7101		PD5855A		OTHER				
			. 20000		OTHERS	_	NINECTOR	A1/A4040	
	COILS AND FIL	TERS				3 3P CO	NNECTOR	AKM1213 AKM1225	
	F7101,F7102 EN	ЛI FILTER	CCG1162				CONNECTOR	AKW1274	
							IC RESONATOR	ASS1170	
	<u>CAPACITORS</u>								
		0uF/6.3V)ACH1365							
	C7101,C7102,C7		CKSSYF104Z16		<b>SEMICO</b>	NDUC.	<u>TORS</u>		
	C7121-C7135,C7	152,C7158-C7162	CKSSYF104Z16		IC7204			TC74VHC125FT	
	DECICTORS								
	RESISTORS	440 DZ440 DZ404	DAD400404 I		CAPACI				
	R7113,R7115,R7 R7123,R7124	116,R7119,R7121	RAB4CQ101J RAB4CQ101J			C7203,C7	7258,C7259	CCSRCH470J50	
	,	108,R7110,R7111	RAB4CQ330J		C7220			CKSSYF104Z16	
;	Other Resistors	100,117 110,117 111	RS1/16SS###J		DECICE	)DC			
					RESISTO			DC1/16CC### I	
					All Resi	Siors		RS1/16SS###J	
	[MAIN UCOM BL				OTHERS	:			
	<b>SEMICONDUCT</b>	ORS				_	CONNECTOR	AKM1274	
İ	IC7205		BR24L64F-W		00		0020.0	,	
l	IC7207 IC7201		MB91F355APMTGE1						
	IC7201 IC7209		MM1522XU NJM12904V				[REGLATORBLO	CK]	
	IC7211		PQ20WZ11		<b>SEMICO</b>	NDUC.	<u>TORS</u>		
	.0		. 0		IC7453			BA33BC0WFP	
	IC7210		PST3612UR		IC7454			BA50BC0WFP	
)	IC7203,IC7206		PST3628UR		IC7456			NCP1117DT15	
	IC7202		TC74VHC125FT		IC7401 IC7404			SII170BCLG64 TC74VCX08FT	
	Q7203		2SA1586		107404			10744070011	
	Q7201		2SJ461A		IC7403			TC74VCX574FT	
	Q7202		HN1C01FU		IC7451			TC74VHC08FT	
i	Q7206,Q7207		RN1902		Q7406			2SA1586	
	D7201,D7202		1SS355		Q7405			HN1C01FU	
	D7203		SML-311UT		Q7403,0	Q7407,Q	7408	RN1303	
	D7204		UDZS2R7(B)		Q7451			RN1901	
	O A DA OITO DO				Q7401			RN1902	
	CAPACITORS		000001400050			Q7404,Q	7409	RN2303	
	C7244 C7231		CCSRCH100D50 CCSRCH102J50		D7401-l	D7407,D	7457-D7459	1SS355	
	C7243,C7245		CCSRCH221J50						
	C7241,C7242,C7	248.C7249	CCSRCH470J50		COILS A				
	C7213,C7218	,	CCSRCH7R0D50				MI FILTER	ATF1209	
					L7401 (	,		ATH1162	
	C7205		CEHVKW101M6R3		F/401-F	-/404 E	MI FILTER	CCG1162	
	· · · · · · · · · · · · · · · · · · ·	236,C7239,C7252	CKSRYB103K50		CAPACIT	TODS			
	C7226,C7237		CKSRYB104K16				7424,C7484 (10/6.3)	ACG7046	
	C7216 C7209-C7212 C7	214,C7215,C7219	CKSRYB472K50 CKSSYF104Z16			(330uF/6.		ACH1365	
	07200 07212,07	214,07210,07210	010011104210		C7401,0			CCSRCH100D50	
	C7221-C7225,C7	227-C7229	CKSSYF104Z16			C7477-C	7482	CCSRCH221J50	
	C7232-C7234,C7	238,C7240	CKSSYF104Z16		C7403,0	C7404,C7	7406,C7407	CCSRCH820J50	
	C7246,C7247,C7	253 (10uF/16V)	DCH1165		<b>~</b> = · · ·	0744: -		0000011055	
	DEGICTORS					C7411,C7 C7460,C7	7413,C7414,C7419	CCSRCH820J50 CEHVKW101M6R3	
	RESISTORS	041 D7040 D7050	DAD4001011		,	,	7405 7415,C7417,C7418	CKSSYF104Z16	
_		241,R7248-R7250	RAB4CQ101J				, , . , . , . , . , . ,	2.123012.0	
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	1		2			3		4	

Α

В

С

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	5	-	6	-		7		8	
Mark		<u>Description</u>	Part No.		Mark No.		<b>Description</b>	Part No.	
	7420,C7423,C74		CKSSYF104Z16						
C7	7454,C7455,C74	58,C7459,C7466	CKSSYF104Z16		C7531,C75 C7552	537		CKSRYB105K10 CKSRYB123K50	
C7	7469,C7473,C74	76	CKSSYF104Z16		C7532			CKSRYB272K50	Α
C7	7453,C7457 (10u	F/16V)	DCH1165		C7523,C75	554		CKSRYB332K50	
DEC	ICTORC				C7526			CKSRYB473K16	
	<u>ISTORS</u> 7425,R7449,R74	51 R7452 R7454	RAB4CQ101J		C7538			CKSRYB562K50	
	7481,R7497-R74		RAB4CQ101J		C7510,C75			CKSRYF104Z50	
	7453		RAB4CQ103J		C7534,C75		7557,C7558	DCH1165	Ī
	7440,R7441,R744 7417,R7418,R742		RS1/16S0R0J RS1/16S111J		(10uF/1	6V)			_
Π/	/41/,n/410,n/4/	29,07431	N31/1031113		RESISTOR	S			
R7	7428,R7430		RS1/16S272J		R7502			ACN1199	
	7410		RS1/16S5100F		R7545,R75	546		RS1/16S1002F	
	7456 7455		RS1LMF1R5J RS2LMF4R7J		R7559 VR7505 (47	70)		RS1/16S6802F CCP1388	В
	ther Resistors		RS1/16SS###J		VR7503 (4.	,		CCP1394	
OT. 1					\/D7500\/5	77504	\/D7500 (40L)	0004000	
<u>OTH</u>			AKM1201		Other Resis		,VR7506 (10k)	CCP1396 RS1/16S###J	
	N7454,CN7455 N7453 PLUG 15	50P CONNECTER	AKM1201 AKM1232		Other resid	31013		1101/100###0	
	N7402 16P FFC		AKM1234		<u>OTHERS</u>				
	N7451 PH 15P (		AKM1301				NTEND SYSTEM UNI		_
CI	N7401 DVI SOC	KET (24P)	AKP1250		U7502 TV	' FROI	NTEND	AXF1132	
	IICONDUCTO	<u>DRS</u>			[AV IO BLO				
IC.	7452		TC74VHC126FT		SEMICONE	DUC	TORS	CD0000EOV	С
САР	ACITORS				IC7801 IC7803			SP3232ECY TC74VHC00FT	
	7137,C7485,C748	36	CCSRCH470J50		IC7802			TC74VHC125FT	
	7068,C7471		CKSSYF104Z16			706,Q7	7716,Q7801,Q7804	2SA1586	
DEC	ICTORS				Q7807			2SA1586	
	<u>ISTORS</u> 7477		RAB4CQ101J		Q7708,Q77	709,Q7	7711,Q7713-Q7715	2SC4116	
	7382		RS1/16S102J		Q7805			2SC4116	
Ot	ther Resistors		RS1/16SS###J		Q7702,Q77			2SC5233	
					Q7701,Q77 Q7704,Q78		7803,Q7806,Q7808	DTA124EUA DTC124EUA	
B	4V/ DO 4 D	D 400V			07707 077		7740	LINIAAAFIL	
	AV BOAR	N 4991			Q7707,Q77 D7701	1 IU,Q1	1114	HN1A01FU 1SS301	D
	NER BLOCK] IICONDUCTO	npe				707,D7	710-D7712	1SS302	
	7503	<u>Jh5</u>	CXA2064M		D7708,D78		'810	1SS355	
	7502		TC74HC4066AFT		D7713-D77	718		UDZS9R1(B)	
	7503,Q7512,Q75		2SA1586		CAPACITO	RS			_
	7501,Q7502,Q75	•	2SC4116 2SC4116		C7718,C77		747	ACH1419	
Q	7508-Q7511,Q75	19	2504116		C7806,C78	309		CEHVKW100M16	
Q7	7515		DTA124EUA				711,C7739,C7741	CKSRYB103K50	
	7505,Q7513,Q75	16,Q7517	HN1B04FU		C7744-C77 C7701,C77		705.C7709	CKSRYB103K50 CKSRYB105K10	
	7502 7501		1SS355 UDZS30(B)		0			0.10.1.2.00.1.0	_
D,	7501		OD2000(B)				723,C7724,C7730	CKSRYB105K10	Е
COIL	LS AND FILT	ERS			C7732,C77 C7706,C77		752-C7754	CKSRYB105K10 CKSRYB473K16	
F7	7501-F7504		VTF1080		,		726,C7801-C7805	CKSRYF104Z50	
САР	ACITORS				C7807,C78	808		CKSRYF104Z50	
	7527,C7529,C75	33,C7535,C7536	ACG1122		C7708,C77	710 C7	712 C7714	DCH1165	_
C7	7550 (4.7uF/10V)		ACG1122				727,C7731,C7733	DCH1165	
	7518,C7553 (10/6	,	ACG7046		C7737,C77	738,C7	742,C7749-C7751	DCH1165	
	7548 (100uF/16V 7530	)	ACH1394 ACH1417		(10uF/1	6V)			
					RESISTOR	S			
	7528 7501		ACH1418 CEHVKW100M50		R7711,R77		735,R7736	RS1/10S151J	F
	7508,C7509,C754	44,C7545	CEHVKW101M6R3		R7744,R77	745		RS1/10S151J	•
C7	7502,C7520,C752		CKSRYB102K50		R7813 R7703.R77	704.R7	727,R7757,R7758	RS1/10S680J RS1/16S75R0F	
C7	7516		CKSRYB103K50				766,R7769-R7771	RS1/16S75R0F	
				PDP-F	R05U				141
	5	-	6	-		7		8	-

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	Mark No. Description	Part No.	Mark No.	Description	Part No.
	•		D8501	•	UDZS5R6(B)
	Other Resistors	RS1/16S###J	COILS AND FI	LTEDS	
Α	OTHERS		L8502 INDUCTO		ATH1182
	JA7704 6P PIN JACK	AKB1295	F8502-F8506 E	MI FILTER	CCG1162
	JA7701 6P PIN JACK JA7702 4P PIN JACK	AKB1297 AKB1313	CAPACITORS		
	JA7703 PINJACK+MINI DIN 4P	AKB1314		C8523,C8529,C8531	ACG7046
	CN7801 12P FFC CONNECTOR	AKM1233	C8533 (10/6.3)		ACG7046
	JA7705 2P 4PIN MINIDIN(S)	AKP1234	C8505,C8512 (` C8520 (47uF/50		ACH1394 ACH1403
	JA7801 9P D-SUB SOCKET	AKP1240	C8519 `	,	CCSRCH221J50
			C8514		CCSRCH821J50
	[AV SW BLOCK]		C8500,C8540,C		CEHAZL471M16
В	SEMICONDUCTORS IC8005	AN15852A	C8503,C8526,C C8501	8554	CEHVKW100M16 CEHVKW100M35
	IC8002	CXA2069Q	C8507,C8527		CEHVKW100M50
	IC8004	NJM12904V TC4052BFT	C8517		CEHVKW101M6R3
	IC8003 IC8001	TC7WH123FU		08515,C8522,C8552	CEHVKW220M16
	00005 00000 00040 00044	0044500		08511,C8513,C8516 08525,C8551,C8553	CKSRYB103K50 CKSRYB103K50
	Q8005,Q8006,Q8013,Q8014 Q8001,Q8002,Q8007-Q8010,Q8012	2SA1586 2SC4116		C8543 (10uF/16V)	DCH1165
	Q8016,Q8019,Q8020	2SC4116	DEGICTORO		
	Q8015 Q8003,Q8018	2SK209 DTA124EUA	RESISTORS R8511		ACN1164
			R8506,R8507,F		ACN1188
С	Q8004,Q8017 Q8011	DTC124EUA HN1C01FU	R8543,R8544,F R8502,R8531	R8547,R8548	ACN1188 ACN1199
	D8002	1SS301	R8503		RD1/2LMF100J
	D8001,D8015,D8016	1SS355	R8501		DD1/01 ME201 I
	CAPACITORS		R8512		RD1/2LMF391J RS1/16S1101F
	C8051 (10/6.3)	ACG7046	R8523		RS1/16S3302F
-	C8012,C8056 (100uF/16V) C8022,C8027	ACH1394 CCSRCH181J50	R8508 R8536		RS1LMF8R2J RS1LMFR56J
	C8019,C8038	CCSRCH681J50	D0504		DOO! MEODO!
	C8040,C8041	CEHVKW100M16	R8524 Other Resistors		RS2LMF3R3J RS1/16S###J
	C8002-C8004,C8008,C8009,C8016	CKSRYB105K10			
D	C8050 C8001.C8005-C8007.C8010.C8013	CKSRYB105K10 CKSRYF104Z50	OTHERS CN8504 PLUG	2/15D\	KM200NA15
	C8015,C8025,C8026,C8031-C8036	CKSRYF104Z50	U8502, U8503		AXY1088
	C8039,C8042-C8044,C8048,C8049	CKSRYF104Z50	U8504 DD CO	N UNIT	AXY1089
	C8052,C8053,C8055,C8059	CKSRYF104Z50			
	C8011,C8014,C8017,C8018 C8023,C8024,C8028,C8037	DCH1165 DCH1165	[BOARD IF BLO	OCK]	
	C8045,C8046,C8061 (10uF/16V)	DCH1165	CAPACITORS C8651,C8652		CCSRCH181J50
	RESISTORS		DE01070D0		
	All Resistors	RS1/16S###J	RESISTORS All Resistors		RS1/16S###J
Е					
	[AV REG BLOCK]		OTHERS	50 FOR CONNECTER	AIZM1001
	SEMICONDUCTORS		CN8657 40P C	53 50P CONNECTER CONNECTER	AKM1201 AKM1303
	IC8505 IC8504	BA50BC0WFP BA90BC0WFP			
_	IC8506	BD6522F	[UIF UCOM BL	OCK1	
	IC8503 IC8502	M5291FP NCP1117ST33	SEMICONDUC		
	100502	NCF11173133	IC8705		BR24L01AFJ-W
	Q8501,Q8502,Q8504	2SC4116	IC8702 IC8703		HD64F3687FP PST9231N
	Q8503 Q8511	DTA124EUA TPC6104	IC8701		TC74VHC08FT
F	D8503,D8505,D8508,D8512	1SS355	IC8704		TC7W126FU
	D8509	D1FL20U(S)	Q8702		DTC124EUA
	D8502	UDZS30(B)	CAPACITORS		
-	142	PDP-R0			
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<u> Nark No.</u>	<u>Description</u>	Part No.	Mark No. Description	Part No.	
C8706,C8707		CCSRCH120J50	CN9301 SOCKET (20P)	AKP1226	
C8714,C8715		CCSRCH470J50	CN9302 CONNECTOR	CKS3830	
C8716		CEHVKW101M6R3			
C8709 C8701-C8705,C87	700 00711 00712	CKSRYB472K50 CKSRYF104Z50			
C6701-C6705,C67	00,00711-00713	UNSh1F104Z50	SR ASSY		
<b>ESISTORS</b>			OTHERS		
R8719		RAB4C101J	JA9453 MINI JACK(4P)	AKN1073	
R8702,R8704,R87	'20.R8745	RAB4C103J	CN9452 CONNECTOR	CKS3826	
Other Resistors	,	RS1/16S###J	JA9451,JA9452 JACK	RKN1004	
			9453 SCREW TERMINAL	VNE1949	
<u>THERS</u>					
CN8701 PLUG 8		AKM1225			
CN8702 3P PH C		AKM1274	G FRONT ASSY		
X8702 CERAMIC		ASS1168			
X8701 CERAMIC		ASS1172	SEMICONDUCTORS	DD04004E1	
(32.768kHz)			IC9501 IC9502	BR24C21FJ TC74VHC08FT	
			Q9503-Q9508	2SC4116	
CCD BLOCK]			Q9501,Q9502	DTC124EUA	
EMICONDUCT	ORS		D9503	1SS301	
IC8904	<u>บทง</u>	FMS6410CS	<del></del>		
IC8904 IC8903		PD5910A	D9506-D9508,D9514-D9516	1SS302	
IC8906		PST3628UR	D9501,D9502,D9504,D9505	UDZS5R6(B)	
Q8902-Q8904,Q89	923,Q8924	2SA1586	D9509-D9511,D9517,D9518	UDZS9R1(B)	
	-,	<del>-</del>			
CAPACITORS			<u>CAPACITORS</u>		
C8913,C8916 (2.2	uF/16V)	ACG1109	C9517,C9518	CCSRCH220J50	
C8912,C8915	,	CCSRCH221J50	C9520-C9522,C9526-C9528	CEHVKW470M6R3	
C8920,C8921		CCSRCH5R0C50	C9505,C9506,C9531-C9533	CKSRYB103K50	
C8904,C8907		CCSRCH681J50	C9504,C9514	CKSRYB104K16	
C8944		CCSRCK2R0C50	C9507-C9512	CKSRYB105K10	
00040 00010		OEL WILLIAM COLLEGE	C9503	CKSRYB473K16	
C8910,C8919	101	CEHVKW100M16	C9516,C9519,C9537,C9629	CKSRYF104Z16	
C8911,C8914,C89	131	CKSRYB102K50 CKSRYB103K50	C9513,C9515,C9523,C9534-C9536	DCH1165	
C8930 C8935,C8936		CKSRYB105K10	C9538-C9540	DCH1165	
C8945		CKSRYB153K50			
00010		ONOTH B TOOKSO	<u>RESISTORS</u>		
C8929		CKSRYB683K16	R9504,R9507,R9508,R9534-R9536	RS1/16S75R0F	
C8901,C8903,C89	06,C8909	CKSRYF104Z50	R9543-R9545	RS1/16S75R0F	
C8917,C8918,C89	25,C8937	CKSRYF104Z50	Other Resistors	RS1/16S###J	
			OTHERO		
RESISTORS			<u>OTHERS</u>		
R8932		RAB4C101J	JA9501 PIN JACK(3P)	AKB1303	
R8907-R8916,R89	, ,	RAB4C473J	JA9504 PIN JACK(3P) CN9502 50P CONNECTER	AKB1305	
R8948,R8949,R89 Other Resistors	101	RAB4C473J	JA9502 4P MINIDIN SOCKET(S)	AKM1201 AKP1238	
Other Resistors		RS1/16S###J	JA9502 4P MINIDIN SOCKET(S) JA9505 15P D-SUB SOCKET	AKP1236 AKP1241	
OTHERS			0, 00000 TOT D-00D 300NET	/WW 1471	
X8901 CERAMIC	RESONATOR	ASS1159	JA9503 JACK	RKN1026	
(16MHz)	TILOUNATUR	A001103			
( · ,					
_			LED ASSY		
MDR ASS	V		SEMICONDUCTORS		
			Q9651	DTA124EUA	
SEMICONDUCTO	OK2	TO74)// 1000FT	Q9653	HN1C01FU	
IC9301,IC9302		TC74VHC08FT	Q9652	RN2902	
Q9301,Q9302		2SC4116	D9652	SML-310DT	
Q9303		DTA124EUA	D9654	SML-310MT	
CAPACITORS					
C9304		CCSRCH101J50	D9653	SML-311UT	
C9304 C9301,C9305-C93	308	CCSRCH471J50	D9655	SML-521MDW	
C9302,C9303		CKSRYF104Z50	0.4.04.01=0=0		
			CAPACITORS		
RESISTORS			C9651	CKSRYB103K50	
All Resistors		RS1/16S###J	DE0107070		
			RESISTORS		
			All Resistors	RS1/16S###J	
THERS					
<u>)THERS</u>			PDP-R05U		143

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Mark No. Description	Part No.	Mark No.	<b>Description</b>	Part No.
·		C1032,C1039-	C1041,C1061,C1076	CKSQYB225K10
OTHERS  CN9651 7P PH CONNECTOR	AKM1293	C1088		CKSQYB225K10
CN9031 /F FR CONNECTOR	ARIVI1295	C1036		CKSRYB103K50
			C1031,C1042,C1045	CKSRYF105Z10
		C1059,C1075,		CKSRYF105Z10
TUNER BOARD ASS	Υ	C1002,C1012,	C1013,C1016,C1017	CKSSYB103K16
OTHERS				
1 SCREW	ABZ30P060FTC	C1026,C1030,	·	CKSSYB103K16
10 WIND REFLECTOR 2	AEC2011		C1050,C1058,C1062 C1074,C1085,C1086	CKSSYB103K16 CKSSYB103K16
♠ 90 GASKET C	AEC2014		C1074,C1065,C1066 C1025,C1046,C1047	CKSSYF104Z16
2 WIND REFLECTOR	AEC7521	C1052,C1084,	· · · · · ·	CKSSYF104Z16
⚠ 5 GASKET A	AEC7528	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
⚠ 6 GASKET B	AEC7529	<b>RESISTORS</b>		
1 CASE TOP	ANG2659	R1073,R1074		RS1/10S271J
⚠ 4 PCMCIA EJECTOR	ANG2673	R1035		RS1/16SS1103F
⚠ 8 GROUND PLATE A	ANG2698	R1039		RS1/16SS1202F
♠ 9 GROUND PLATE B	ANG2699	R1043 R1019		RS1/16SS1503F RS1/16SS2202F
7 TOP COVER	ANIC2706	פוטוח		NO 1/10002202F
3.5 SCREW	ANG2706 BBZ30P080FTC	R1032		RS1/16SS5102F
1 RIVET A	BEC1158	R1021		RS1/16SS5602F
4 SCREW	PMZ20P080FTC	R1041		RS1/16SS9102F
6 SCREW	VMZ30P060FTC	R1069,R1070		RS1/16S470J
		R1080,R1081,	R1109	RS1/4S1R5J
		R1015,R1042		RS1/4S3R3J
IVO DOWED DI OCKI		Other Resistor	2	RS1/16SS###J
[I/O POWER BLOCK] SEMICONDUCTORS		Other redictors	5	1101/1000###0
IC1012	041 COECT(1)CNC	OTHERS		
IC1012 IC1015	24LC256T(I)SNG BA00BC0WFP	CN1001 40P	CONNECTER	AKM1217
IC1021	CY2305SC-1H	CN1002 12P	PH CONNECTOR	AKM1298
IC1022	KA5SDKAS01TSN		PH CONNECTOR	AKM1300
IC1007,IC1016	MM1562FF		TAL RESONATOR	BSS1123
10.000		(27.0000	IMHZ)	
IC1006 IC1004,IC1005,IC1023	MM1563DF			
IC1004,IC1005,IC1025	MM1565AF NJM2370U09	[FRONT END I	BLOCK]	
IC1010	PST3622NR	SEMICONDU	_	
IC1013,IC1014	R1224N102H	IC1502		BA10358F
		IC2002		BCM3510KPFG
IC1019	S-L2980A15MC-C6A	IC1501		TC7W66FU
IC1011	TC7S08FU	IC1503		UPC1663GV
Q1006,Q1012	2SA1576A	IC4503		UPC3220GR
Q1008,Q1009 Q1005	CPH5802 DTC124EUA	Q1503-Q1505		2SC5084
Q1003	DIOIZALOA	Q1501		RN1901
Q1001,Q1010,Q1011,Q1013	RN1901	D1501,D1502		1SS312
Q1003	UMD2N	•		
D1001	1SS355	<b>COILS AND F</b>	ILTERS	
D1003-D1009,D1014,D1019	RB501V-40	F4502 SAW F		ATF1215
COULC AND EUTEDS		F1501,F1502	_	BTF1079
COILS AND FILTERS	AT114404	L1504,L1505	CHIP COIL	BTH1121
L1003,L1004	ATH1161	L4564		LCTAW1R5J2520
L1008,L1010 CHIP BEEDS FILTER L1005-L1007,L1009,L1011-L1018	BTX1039 BTX1042	L4565		LCYA10NJ2520
CHIP BEEDS FILTER	217(1012	L4503		LCYA56NJ2520
F1001,F1002 FERRITE CORE	VTF1084	L4502,L4505		LCYA68NJ2520
		L4501,L4509		LCYA82NJ2520
<u>CAPACITORS</u>		L4507		LCYAR10J2520
C1049,C1051,C1090	BCG1054	L1501		LCYAR68J2520
C1078	BCG1059	E150/ E1507 I	F1510,F1511,F1514	VTF1084
C1048	CCSRCH102J50		F4504 FERRITE CORE	VTF1084
C1019-C1022,C1057,C1089 C1008	CCSRCH471J50 CEHVKW100M50	1 2001-1 2004,1		711 1007
01000	OLITATOV TOOMIO	<b>CAPACITORS</b>		
C1001,C1010,C1054-C1056,C1060	CEHVKW101M6R3	C1505,C1521		ACH1421
C1064	CEHVKW101M6R3		C2001,C2002,C2015	BCG1054
C1009,C1014,C1015,C1034,C1035	CEHVKW470M16	C2018,C2019,	C2038,C2039	BCG1054
C1053,C1070	CEHVKW470M16	C4505		CCSRCH271J50
144	PDP-R			
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Mark No. Description	Part No.	Mark No. Description	Part No.	
C4504	CCSSCH100D50	D5201	RB501V-40	
C4501,C4513,C4534	CCSSCH101J50	COILS AND FILTERS		
C4511	CCSSCH120J50	F3014 CHIP FERRITE BEADS	ATF1212	-
C2033,C2040	CCSSCH220J50	F3003,F3004,F3006-F3008	VTF1084	
C4502,C4503,C4509	CCSSCH270J50	F3010-F3013,F3015,F5501-F5504	VTF1084	
C4515,C4517	CCSSCH390J50	F5506,F5507 FERRITE CORE	VTF1084	
C4507	CCSSCH560J50	CAPACITORS		
C1516,C1531,C1536	CEHVKW100M16	C3035,C3036,C5532	BCG1054	
C1508	CEHVKW100M50	C5502 CERAMIC CAPACITOR	BCG1059	
C1510	CEHVKW101M25	C3105	CCSSCH220J50	
C1507	CKSRYB103K50	C3095,C3096	CCSSCH5R0C50	
		C3103	CEHVKW100M16	
C1503,C4518,C4524,C4528	CKSSYB102K50	00100	OLITATOONITO	
C4532,C4533,C4535	CKSSYB102K50	C5514	CEHVKW101M6R3	
C1502,C1504,C1506,C1511,C1512	CKSSYB103K16	C3016	CKSRYF105Z10	
C1514,C1517,C1519,C1522-C1526	CKSSYB103K16	C3085,C3093	CKSSYB102K50	
C1528-C1530,C1534,C1537-C1548	CKSSYB103K16	C3024,C3025,C3027,C3029	CKSSYB103K16	
		C3033,C3034,C3038,C3053,C3058	CKSSYB103K16	
C1552,C2003-C2014,C2016,C2017CF	KSSYB103K16	03003,03034,03030,03033,03030	CKGGTDTGGKTG	
C2020-C2032,C2035-C2037,C4520	CKSSYB103K16	C3065,C3066,C3089,C3091	CKSSYB103K16	
C4525,C4530,C4544,C4546,C4547	CKSSYB103K16	C5201-C5212,C5501,C5503-C5513	CKSSYB103K16	
C4551-C4553	CKSSYB103K16	C5201-C5212,C5501,C5503-C5513 C5515-C5531,C5533-C5535	CKSSYB103K16	
C1515,C1518,C1533	CKSSYB104K10	C3001,C3002,C3004-C3010	CKSSYB103K10	
		C3001,C3002,C3004-C3010 C3012-C3015,C3017,C3018	CKSSYB104K10	
C1513,C1535	CKSSYF104Z16	03012-03013,03017,03018	UN3310104N10	
		C3020-C3023,C3026,C3028	CKCCAB104K10	
ESISTORS		C3020-C3023,C3026,C3028 C3031,C3032,C3040,C3041	CKSSYB104K10	
R1548	RS1/16SS1001F	C3043-C3045,C3040,C3041 C3043-C3045,C3047-C3049	CKSSYB104K10 CKSSYB104K10	
R1557	RS1/16SS2201F	•		
R2036	RS1/16S0R0J	C3051,C3052,C3054-C3057,C3059	CKSSYB104K10	
Other Resistors	RS1/16SS###J	C3061,C3064,C3067-C3070,C3072	CKSSYB104K10	
5	. 10 1/ 10001111110	C3074 C3076 C3070 C3090 C3094	CK66AB4U4N4U	
THERS		C3074-C3076,C3078,C3080,C3081	CKSSYB104K10 CKSSYB104K10	
X2001 CRYSTAL RESONATOR	ASS1186	C3084,C3086-C3088,C3090,C3092 C3100,C3101,C3106		
	MOD 1 100	03100,03101,03100	CKSSYB104K10	
(26.800MHz) M1501 TUNER MODULE	AXF1125	DECICTORS		
WITOUT TOINED WIODULE	MAT 1120	RESISTORS	DONAGE	
		R3062-R3066	BCN1067	
OD BLOCKI		R5003,R5007,R5501,R5526	BCN1072	
POD BLOCK]		R3079	RAB4C102J	
EMICONDUCTORS		R3048	RAB4C103J	
IC2501	109865-PBF	R3021,R5545,R5547,R5548	RAB4C330J	
IC2502	TC74LCX244FT	DEFOT D	DAD46 :== :	
IC2504	TC74LCX245FT	R5507,R5522,R5524	RAB4C472J	
IC2503	TC74LCX257FT	R5528,R5529,R5532	RAB4C560J	
IC2505,IC2506	TC74LCX373FT	R3036,R3037	RS1/16S1002F	
		R5513	RS1/16S1371F	
APACITORS		R3117,R3118,R3121,R5017	RS1/16S220J	
C2510	CCSSCH680J50			
C2502-C2509	CKSSYF104Z16	R5585	RS1/16S3240F	
	-	R3005,R3028	RS1/16S4021F	
SISTORS		Other Resistors	RS1/16SS###J	
R2259,R2503,R2507,R2511-R2513	BCN1067			
R2510,R2521,R2559	RAB4C103J	<u>OTHERS</u>		
R2535,R2546,R2552,R2553	RAB4C470J	X3001 CRYSTAL RESONATOR	ASS1185	
Other Resistors	RS1/16SS###J	(25.000MHz)		
HEDC				
CNOSCI DOMOIA CONNECTOR	AVD1050	[MEMORY BLOCK]		
CN2501 PCMCIA CONNECTOR	AKP1259	SEMICONDUCTORS		
		IC6001-IC6004	IC42S16800-6TG	
VOTEM IO DI COLCI		IC3501,IC3505	K4H561638F-UCB3	
YSTEM IC BLOCK]		IC3503	PC28F128K3C115	
MICONDUCTORS		100000	1.0501.1501.30113	
IC5501	BCM7021RKPB1G-D0	COIL C AND FILTERS		
IC3001	BCM7115A3KPBG	COILS AND FILTERS	ATE 40:0	
IC5502	CY22381FSZC-147	F6001-F6004 CHIP FERRITE BEADS	ATF1212	
IC5201	PE5434A	F6005-F6008 FERRITE CORE	VTF1084	
IC3003,IC3004	TC7SA08FU			
		<u>CAPACITORS</u>		
		PDP-R05U		145
		_		

Cols		1	-	2	3	4
Casin Casi	Ma		Description		-	tion Part No.
RESISTORS		C3502-C3508		CKSSYB103K16	•	
RESISTORS   R3501   RAB4C103J   RAB4C103	Α	C3526,C3527	7,C3529,C6001-C6028	CKSSYB103K16	Other Resistors	RS1/16SS###J
R8531   R8001 R0006   RABACCIQAJ   R801-R8001 R0006   R91-R85330   R8001-R0006   R91-R85330   R92-R8540   R91-R851210F   R91-R85120F   R91-R851210F   R91-	RE	•	,			TOR ASS1184
RS21,18340				RAB4C103J		7,001104
DIGITAL VIDEO BLOCK    SEMICONDUCTORS   C7501   C7503-07505   C7504-07505   C7501   C7503-07505   C7504-07505   C7501   C7503-07505   C7504-07505   C7507		R3521,R3540	)	RS1/16S1210F	JA4001 OPTICAL OUT MO	D. GP1FM513TZ
OTHERS         SEMICONDUCTORS           CN3501 80P CONNECTOR RCPT         BKP1159         IC7501 (C7503-IC7505)         PEB498A           IAUDIOVIDEO BLOCKIS         IC7601 (C7503-IC7505)         TC74LCX541FT           SEMICONDUCTORS         IC4007         AK5381VT (C4005)         CV24218SC-1           IC4001 (C4003) (C40006)         NJM2068V (C7500)         C7507         BCG1054           IC8001 (C4001) (C4003) (C4006)         NJM2068V (C7500)         C7507         BCG1054           COBS AND FILTERS         2SC4081         R7540 R7541         BC01054           L4004,14005 (CHIP COIL)         BTH1107         R7547-R7550         RS116S370J           L4004,14005 (CHIP COIL)         BTH1107         PR540R7541         BC01054           L8004 (A4005 (CHIP COIL)         BTH1107         PR5747-R7550         RS116S370J           CBS09 (F804) (R504) (		Other Resisto	iis	NO1/1000###J	[DIGITAL VIDEO BLOCK]	
Samiconductors   Colls and Fitters   Colls a	<u>O</u> 1	THERS				
SEMICONDUCTORS   COLS AND FILTERS   SEMICONDUCTORS   CAPACITORS   CA		CN3501 80F	CONNECTOR RCPT	BKP1159		
IC4005   C4003   C4006   NJM2089V   C7507   C7507   C7507   C4001.04003,048062   2SA1576A   C7501-C7506,C7508,C7510,C7511   CKSSYB104K10   C4001-04003,048062   2SA1576A   RESISTORS   R75-01,77541   R75-18   R						RE VTF1084
C-4001_C-4003_C-4006   N_M/2068V   C7507   C7507   E0G-1064   CKSSYB104K10   CRS901   TC90A92AFG   C7501-C7506_C7508_C7510_C7511   CKSSYB104K10   CRS901-C7506_C7508_C7510_C7511   CKSSYB104K10   CRS901-C7506_C7508_C7510_C7511   CKSSYB104K10   CRS901-C7506_C7508_C7510_C7511   CKSSYB104K10   CRS901-C7506_C7508_C7510_C7511   CKSSYB104K10   CRS901-C7506_C7508_C7508_C7510_C7511   CKSSYB104K10   CRS901-C7506_C7508_C7508_C7510_C7511   CKSSYB104K10   CRS901-C7506_C7508_C7508_C7510_C7511   CKSSYB104K10					0.1.7.1.01.7.7.7	
CRESTI			13 IC4006			DCC1054
COLIS AND FILTERS		IC8501		TC90A92AFG		
COILS AND FILTERS		00504		0004004	<b>RESISTORS</b>	
COLLS AND FILTERS         R7547-R7550         RS1/16SA70U           L4004_L4005 CHIP COIL         BTH107         Other Resistors         RS1/16SS##J           CL 8508         L4004_L4007, F8501_F8504-F8507         COTHERS         COTHERS           F4004_F4007, F8501_F8504-F8507         VTF1084         OTHERS         CN7501_50P CONNECTER         AKM1236           CA003_C4018_C4078_C8503_C6519         BCG1054         SEMICONDUCTORS         CN260_C4019_L4079_C4085         BCG1054         SEMICONDUCTORS           CA019_C4079_C4085         BCG1059         BCG1059         IC88004         PST3622NR           C4001_C4002         CCSRCH451J50         IC88003         TC74LCX125FT           C4001_C4002         CCSRCH471J50         IC88006         TC75A08FU           C4004_C4006_C407_C4008         CCSSCH180J50         IC88006         TC75A08FU           C4004_C4007_C4007_C4055         CCSSCH180J50         Q8001         DTC124EUA           C4004_C4005_C4007_C4008         CCSSCH22J50         Q8001         DTC124EUA           C4004_C4005_C4007_C4008         CCSSCH300J50         E8001_E8001_E8001_EMIFLETER         DTL1106           C8524         CKSCYB125K90         CCSSCH480L50         F8001_E8002_EMIFILITER         DTL1106           C8501         CKSKYB195K160		Q8501		2504081		
L4004_L4005 CHIP COIL	C	OILS AND	FILTERS			
FA004-F4007,F8501-F8504-F8507   VTF1084				BTH1107		
CAPACITORS	С					
C4003_C4018_C4078_C8503_C8519						AKM1236
C4003_C4018_C4078_C8503_C8519	C	A DA CITOR	9			
C8521-C8523_C2542_C8544   BCG1054   SEMICONDUCTORS	<u>U</u>			BCG1054	[IEEE1304 BLOCK]	
C4019,C4079,C4085 C8506 C8506 C8506 C4001,C4002 CCSRCH391J50 C168003 TC74LCX125FT C7508FU TC7508FU TC75080FU TC7080FU TC7080						
C8806 C4001,C4002 C4001,C4002 C4003,C4039 C4038,C4039 C4038,C4039 C4038,C4039 C4038,C4037,C4070,C8550 C68528 C6852			),C4085			PST3622NB
C4003,C4039 CCSRCH471J50 IC8006 TC7SA08FU TSB43CA42ZGW C8502 CCSSCH101J50 IC8001 TSB43CA42ZGW C8528 CCSSCH20J50 Q8001 DTC124EUA CCSSCH220J50 Q8001 DTC124EUA CCSSCH220J50 CCSSCH20J50 CS5CH20J50 CCSSCH20J50 CCSSC			<b>.</b>			
C4038,C4037,C4070,C8550		C4001,C4002	-	CC3HCI 139 1350		
C44036,C4010 CCSSCH180JS0 CCSSCH180JS0 CSSCH220JS0 CCSSCH180JS0 CCSSCH220JS0 CCSSCH280JS0 CSSCH220JS0 CCSSCH280JS0 CSSCH280JS0 CSSCH280JS		C4038,C4039	)			
C8528 CCSSCH220J50 CCSSCH220J50 CCSSCH220J50 CCSSCH221J50 CC4011,C4012 CEHVKW470M16 F8001,F8002 EMI FILTER DTL1106 VTF1084 CKSQYB225K10 CKSQYB225K10 CKSQYB225K10 CKSQYB225K10 CKSQYB25K10 CKSQYB152K50 CKSQYB152K50 CSSCH221J50 CKSSYB102K50 C8024,C8025 CKSPYB165K6R3 CA006,C4013,C4014,C4027,C4028 CKSSYB103K16 C8014,C8019 CKSSYB105K6R3 CKSSYB103K16 C8014,C8019 CKSSYB102K50 C8507-C8511,C8513-C8516,C8518 CKSSYB103K16 C8029-C8031 CKSSYB102K50 C8507-C8511,C8513-C8516,C8518 CKSSYB103K16 C8029-C8031 CKSSYB102K50 C8507-C8511,C8513-C8516,C8518 CKSSYB103K16 C8037 CKSSYB104K10 C8549,C8554 CKSSYB103K16 C8037 CKSSYB104K10 C8549,C8554 CKSSYB103K16 C8001-C8011,C8015-C8018 CKSSYB104K10 C8549,C8554 CKSSYB103K16 C8001-C8011,C8015-C8018 CKSSYF104Z16 C8512,C8517,C8529,C8545-C8548 CKSSYB104K10 CKSSY	D		7,C4070,C8550		100001	130430A422011
C4009,C4010  CCSSCH221J50  C4004,C4005,C4007,C4008  C8502  CCSCH4R0C50  C4011,C4012  CEHVKW470M16  C8524  CKSCYB225K10  C8524  CKSRYB152K50  C8651  C4015,C8531  C4013,C4014,C4027,C4028  C4021,C4024,C4027,C4028  C8597-C8511,C8513-C8516,C8518  C8597-C8511,C8513-C8546  C8527,C8529,C8530,C8533-C8540  C8527,C8529,C8530,C8533-C8540  C8527,C8529,C8530,C8533-C8540  C8527,C4026,C4026,C4037,C4068  C8527,C4026,C4027,C4028  C8527,C4026,C4027,C4028  C8527,C4026,C4027,C4028  C8527,C4026,C4027,C4028  C8527,C4026,C4027,C4028  C8527,C4026,C4028,C4037,C4028,C4031  C8527,C4026,C4028,C4073,C4080,C4081  C8527,C4026,C4028,C4073,C4080,C4081  C8527,C4026,C4028,C4073,C4080,C4081  C8527,C4028  C4047,C4053,C4054,C4057,C4061  C8527,C4028  C4047,C4053,C4054,C4057,C4061  CKSSYF104Z16  C4047,C4053,C4054,C4057,C4061  CKSSYF104Z16  C4047,C4053,C4054,C4057,C4061  CKSSYF104Z16  CRSSYF104Z16  C4047,C4053,C4054,C4057,C4061  CKSSYF104Z16  CRSSYF104Z16  CRSSYF104Z16  CRSSYF104Z16  R8001,R8002,R8013  R8011  R8004  R8030  R804C472J  R80511  R8078  R8511  R8077,R8079  R851/16SS56RDD  R851/16SS56RDD  R851/16SS56RDD  R81/16SS56RDD  R81/16SS56RDD					Q8001	DTC124EUA
C4004,C4005,C4007,C4008 C8502 CCSSCH4R0C50 CRSCH4R0C50 CA011,C4012 CEHVKW470M16 C4021,C4024 CKSQYB255K10 C8524 CKSQYB255K10 C8524 CKSRYB152K50 C8926,C8027 CCSSCH4R0C50 C8501 C4015,C8531 CKSRYB474K10 C8026,C8027 CCSSCH2025 C4015,C8531 CKSSYB102K50 C8024,C8025 C4004,C4059,C4083,C4084 CKSSYB103K16 C8507-C8511,C8513-C8516,C8518 C8507-C8511,C8513-C8516,C8518 C8527,C8529,C8530,C8533-C8540 C8527,C8529,C8530,C8533-C8540 C8527,C8529,C8530,C4054,C4057,C4061 C8527,C4068 C4067,C4068 CKSSYB104K10 C8527,C4068 CKSSYB104K10 C8527,C4068 CKSSYB104K10 C8527,C4068 CKSSYB104K10 C8527,C4068 CKSSYB104K10 C8527,C4068 CKSSYB104K10 C8527,C4068 CKSSYB104K10 CRSSYB104K10 C8527,C4068 CKSSYB104K10 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C8527,C4068 CKSSYB104K10 C8527,C4068 CKSSYB104K10 C8527,C4068 CKSSYB104K10 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8517,C8520,C8545-C8548 CKSSYB104K10 C8020-C8023,C8032,C8036 CKSSYF104Z16 CRSSYF104Z16 CRSO11, R8001, R8002, R8013 CRSTNTR CRSO11, R8002, R8013 CRSO11, R8002, R8013 CRSSYF104Z16 CRSO11, R8002, R8013 CRSO11, R8002, R8013 CRSO11, R8002,			)		00110 4110 511 7500	
C8502 CCSSCH480C50 F8001,F8002 EMI FILTER DTL1106 CCS0C C4011,C4012 CEHVKW470M16 F8003 FERRITE CORE VTF1084  C4021,C4024 CKSCYB225K10 CKSCYB225K10 CKSCYB152K50 CKSCYB152K50 CKSCYB152K50 CKSCYB152K50 C8012,C8013 CCSSCH100D50 C8524 CKSCYB152K50 C8026,C8027 CCSSCH221J50 C4015,C8531 CKSCYB102K50 C8024,C8025 CKSRYB105K6R3 C4006,C4013,C4014,C4027,C4028 CKSCYB103K16 C8014,C8019 CKSRYF104Z16 C4040,C4059,C4083,C4084 CKSCYB103K16 C8029-C8031 CKSSYB102K50 C8527,C8529,C8530,C8533-C8540 CKSSYB103K16 C8037 CKSSYB103K16 C8527,C8529,C8530,C8533-C8540 CKSSYB103K16 C8037 CKSSYB103K16 C8549,C8554 CKSSYB103K16 C8037 CKSSYB103K16 C8549,C8554 CKSSYB103K16 C8512,C8517,C8529,C4073,C4080,C4081 CKSSYB103K16 C8011,C8015-C8018 CKSSYF104Z16 C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C8542,C4025,C4029,C4073,C4080,C4081 CKSSYB104K10 C8542,C4025,C4029,C4073,C4080 CKSSYB104K10 C8542,C4025,C4029,C4073,C4061 CKSSYB104K10 C8542,C4025,C4029,C4073,C4061 CKSSYB104K10 C8542,C4025,C4025,C4029,C4073,C4061 CKSSYB104K10 C8542,C4025,C4029,C4073,C4061 CKSSYB104K10 C8642,C4064,		,				ATL 14400
C4011,C4012 CEHVKW470M16 F8003 FERRITE CORE VTF1084  C4021,C4024 CKSQYB225K10 CKSRYB152K50 C8012,C8013 CCSSCH100D50  C8524 CKSRYB474K10 C8026,C8027 CCSSCH221J50  C4015,C8531 CKSRYB102K50 C8024,C8025 CKSRYB105K6R3  C4006,C4013,C4014,C4027,C4028 CKSSYB103K16 C8012,C8013 CKSSYB102K50  C4040,C4059,C4083,C4084 CKSSYB103K16 C8012,C8013 CKSSYB102K50  C8507-C8511,C8513-C8516,C8518 CKSSYB103K16 C8029-C8031 CKSSYB103K16  C8527,C8529,C8530,C8533-C8540 CKSSYB103K16 C8033,C8034 CKSSYB103K16  C8527,C8529,C8530,C8533-C8540 CKSSYB103K16 C8037 CKSSYB104K10  C8549,C8554 CKSSYB103K16 C8037 CKSSYB104K10  C8549,C8554 CKSSYB103K16 C8001-C8011,C8015-C8018 CKSSYB104K10  C8549,C8554 CKSSYB104K10 C8020-C8023,C8032,C8036 CKSSYF104Z16  C4047,C4053,C4054,C4057,C4061 CKSSYB104K10  C4047,C4053,C4054,C4057,C4061 CKSSYB104K10  C4082 CKSSYF104Z16 R8003,R8050,R8064 BCN1072  C4082 CKSSYF104Z16 R8003,R8050,R8064 BCN1072  R8001,R8002,R8013 BCN1070  R8001,R8002,R8013 BCN1070  R8001,R8002,R8013 BCN1070  R8001,R8002,R8013 BCN1070  R8001,R8002,R8013 BCN1070  R8001,R8002,R8013 R804472J  R8001,R8009,R8050,R8064 BCN1072  R8001,R8009,R8050,R8064 RAB4COROJ  R8030 RAB4C472J  R8011,R8077,R8079 RS1/16SS5101F  R8511 BCN1070  R8077,R8079 RS1/16SS56R0D  R81/16SS56R0D  R81/16SS56R0D  R81/16SS56R0D		,	5,C4007,C4008			
C4021,C4024 C8524  CKSQYB225K10 CKSRYB152K50  C8012,C8013  CCSSCH100D50  C8501  C4015,C8531  CKSRYB474K10  C8026,C8027  CCSSCH221,J50  C4015,C8531  CKSSYB102K50  C4006,C4013,C4014,C4027,C4028  CKSSYB103K16  C4040,C4059,C4083,C4084  CKSSYB103K16  C8507-C8511,C8513-C8516,C8518  CKSSYB103K16  C8527,C8529,C8530,C8533-C8540  CKSSYB103K16  C8527,C8529,C8530,C8533-C8540  CKSSYB103K16  C8527,C8529,C8530,C4084,C4081  CKSSYB103K16  C8527,C8529,C8530,C4084,C4081  CKSSYB103K16  C8527,C8529,C8530,C4084,C4081  CKSSYB103K16  C8527,C8529,C8530,C4084,C4081  CKSSYB103K16  C8037  CKSSYB104K10  C8549,C8554  CKSSYB103K16  C8001-C8011,C8015-C8018  CKSSYB104K10  C85412,C8517,C8520,C4029,C4073,C4080,C4081  CKSSYB104K10  CKSSYB104K10  CKSSYB104K10  CKSSYB104K10  CKSSYB104K10  CKSSYB104K10  CRS020-C8023,C8032,C8036  CKSSYF104Z16  C4047,C4053,C4054,C4057,C4061  CKSSYB104K10  CKSSYB104K10  C4067,C4068  CKSSYB104K10  CKSSYF104Z16  R8001,R8002,R8013  R8001,R8002,R8013  BCN1070  R8001,R8002,R8013  BCN1070  R8030  R8017,R8079  R81/16SS56R0D  R8077,R8079  R81/16SS56R0D  R8011,R8073,R8074,R8076  R81/16SS56R0D  R81/16SS56R0D			)		•	
C8501_C8501	_	,				
C8501		C8524		CKSRYB152K50		0000011100000
C4015,C8531		C9501		CKSDVB474K10	,	
C4006,C4013,C4014,C4027,C4028 CKSSYB103K16 C8014,C8019 CKSRYF104Z16 C4040,C4059,C4083,C4084 CKSSYB103K16 C8507-C8511,C8513-C8516,C8518 CKSSYB103K16 C8527,C8529,C8530,C8533-C8540 CKSSYB103K16 C8037 CKSSYB104K10 C8549,C8554 CKSSYB103K16 C8001-C8011,C8015-C8018 CKSSYB104K10 C8525,C4029,C4073,C4080,C4081 CKSSYB104K10 C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C4067,C4068 CKSSYB104K10 CKSSYB104K10 C4067,C4068 CKSSYB104K10 CKSSYB104K10 C4047,C4053,C4054,C4057,C4061 CKSSYF104Z16 R8001,R8002,R8013 BCN1070 C4082 CKSSYF104Z16 R8033,R8036,R8050,R8064 BCN1072 CKSSYF104Z16 R8004 RAB4COROJ R8030 RAB4C472J R8511 BCN1070 R8511 BCN1070 R85116SS5101F R8511 BCN1070 R85116SS51002F R8004,R4013,R4014,R4048,R4049 RS1/16SS2402F R8065-R8068,R8073,R8074,R8076 RS1/16SS56R0D RS1/16SS56R0D RS1/16SS56R0D RS1/16SS56R0D RS1/16SS56R0D RS1/16SS56R0D					,	
C4040,C4099,C4083,C4084 C8507-C8511,C8513-C8516,C8518  C8507-C8511,C8513-C8516,C8518  C8527,C8529,C8530,C8533-C8540 C8529,C8530,C8533-C8540 C8529,C8530,C8533-C8540 C8529,C8529,C8530,C8533-C8540 C8549,C8554 C4025,C4029,C4073,C4080,C4081 C8512,C8517,C8520,C8545-C8548 C4067,C4068  C8512,C8517,C8520,C8545-C8548 C4067,C4068  C8529F104Z16 C8001-C8011,C8015-C8018 CKSSYB104K10 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C4067,C4068  C8529F104Z16 C8801-C8011,C8015-C8018 CKSSYF104Z16 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8020-C8023,C8032,C8036 CKSYF104Z16 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8020-C80	=	,			C8014,C8019	CKSRYF104Z16
C8527,C8529,C8530,C8533-C8540 C8549,C8554 C4025,C4029,C4073,C4080,C4081 C8512,C8517,C8520,C8545-C8548 C4067,C4068  CKSSYB104K10 CKSSYB104K10 CKSSYB104K10 CKSSYB104K10 CRSSYB104K10 CRSSYB104K10 CRSSYB104K10 CRSSYB104K10 CRSSYB104K10 CRSSYB104K10 CRSSYB104K10 CRSSYB104K10 CRSSYB104K10 CKSSYB104K10 R8001,R8002,R8013 R8011,R8033,R8036,R8050,R8064 BCN1070 R8030 RAB4C472J R8030 RAB4C472J R8030 R8077,R8079 R81/16SS5101F R8511 R4025,R4026 R8013,R4014,R4048,R4049 RS1/16SS2402F R8065-R8068,R8073,R8074,R8076 RS1/16SS56R0D RS1/16SS56R0D	_				C8029-C8031	CKSSYB102K50
C8527,C8529,C8530,C8533-C8540 CKSSYB103K16 C8037 CKSSYB104K10 C8549,C8554 CKSSYB103K16 C8001-C8011,C8015-C8018 CKSSYF104Z16 C4025,C4029,C4073,C4080,C4081 CKSSYB104K10 C8020-C8023,C8032,C8036 CKSSYF104Z16 C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C8020-C8023,C8032,C8036 CKSSYF104Z16 C4067,C4068 CKSSYB821K50 RESISTORS  C4047,C4053,C4054,C4057,C4061 CKSSYF104Z16 R8001,R8002,R8013 BCN1070 C4047,C4082 CKSSYF104Z16 R8004 RAB4C0R0J R8030 RAB4C472J R8030 RAB4C472J R8030 RAB4C472J R8511 BCN1070 R8077,R8079 RS1/16SS5101F R8511 BCN1070 R8013,R4014,R4048,R4049 RS1/16SS2402F R8078 R8078 RS1/16SS56R0D RS1/16SS56R0D		C8507-C8511	1,C8513-C8516,C8518	CKSSYB103K16	C8033 C8034	CKSSYB103K16
C8549,C8554		C8527,C8529	),C8530,C8533-C8540	CKSSYB103K16	The state of the s	
C8512,C8517,C8520,C8545-C8548 CKSSYB104K10 C4067,C4068 CKSSYB821K50 RESISTORS  C4067,C4068 CKSSYB821K50 R8001,R8002,R8013 BCN1070 C4047,C4053,C4054,C4057,C4061 CKSSYF104Z16 R8033,R8036,R8050,R8064 BCN1072 C4082 CKSSYF104Z16 R8004 R8030 RAB4C0R0J R8030 RAB4C472J R8511 BCN1070 R851/16SS5101F R4025,R4026 RS1/16SS1002F R8065-R8068,R8073,R8074,R8076 RS1/16SS56R0D RS1/16SS2402F R8078 RS1/16SS56R0D		,		CKSSYB103K16	,	
C4067,C4068 CKSSYB821K50 RESISTORS  R8001,R8002,R8013 BCN1070  C4047,C4053,C4054,C4057,C4061 CKSSYF104Z16 R8033,R8036,R8050,R8064 BCN1072  C4082 CKSSYF104Z16 R8004 RAB4C0R0J  R8030 RAB4C472J  R8077,R8079 RS1/16SS5101F  R8511 BCN1070  R4025,R4026 RS1/16SS1002F R8065-R8068,R8073,R8074,R8076 RS1/16SS56R0D  R4013,R4014,R4048,R4049 RS1/16SS2402F R8078 RS1/16SS56R0D	_				C8020-C8023,C8032,C8036	CKSSYF104Z16
C4047,C4053,C4054,C4057,C4061 CKSSYF104Z16 R8033,R8036,R8050,R8064 BCN1072 C4082 CKSSYF104Z16 R8004 RAB4C0R0J R8030 RAB4C472J R8077,R8079 RS1/16SS5101F R8511 BCN1070 R8025,R4026 RS1/16SS1002F R8065-R8068,R8073,R8074,R8076 RS1/16SS56R0D RS1/16SS2402F R8078 RS1/16SS56R0D RS1/16SS56R0D						DCN1070
C4082 CKSSYF104Z16 R8004 RAB4C0R0J R8030 RAB4C472J R8077,R8079 RS1/16SS5101F R8511 BCN1070 R4025,R4026 RS1/16SS1002F R8065-R8068,R8073,R8074,R8076 RS1/16SS56R0D R4013,R4014,R4048,R4049 RS1/16SS2402F R8078 RS1/16SS56R0D		C4047,C4053	3,C4054,C4057,C4061	CKSSYF104Z16		
RESISTORS R8511 R4025,R4026 R4013,R4014,R4048,R4049 RS1/16SS2402F RS1/16SS2402F R8077,R8079 RS1/16SS5101F R8077,R8079 RS1/16SS5101F R8077,R8079 RS1/16SS5101F			,	CKSSYF104Z16	R8004	RAB4C0R0J
R8511 BCN1070 R4025,R4026 RS1/16SS1002F R8065-R8068,R8073,R8074,R8076 RS1/16SS56R0D R4013,R4014,R4048,R4049 RS1/16SS2402F R8078 RS1/16SS56R0D	- RF	ESISTORS				
R4013,R4014,R4048,R4049 RS1/16SS2402F R8078 RS1/16SS56R0D	r			BCN1070	·	
146 PDP-R05U						
		R4013,R4014	I,R4048,R4049	RS1/16SS2402F	H8078	RS1/16SS56R0D
1 2 3 4	146					
		1	-	2	3	4

Mark No. **Description** Part No. R8051 RS1/16SS6341D Other Resistors RS1/16SS###J

**OTHERS** 

CN8001,CN8002 1394 TERMINAL AKP1268 X8001 CRYSTAL RESONATOR VSS1192 (24.576MHz)

SW ASSY **SWITCHES AND RELAYS** 

S8701 POWER SWITCH ASG1097

**OTHERS** 

CN8703 3P PH CONNECTOR AKM1289



POWER SUPPLY UNIT has no service part.

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## 6. ADJUSTMENT

1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.

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- Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
  - 3. Use a stable AC power supply.

#### ■ 6.1 HOW TO ENTER SERVICE FACTORY MODE

■ Refer to the technical document (Service Know-How).

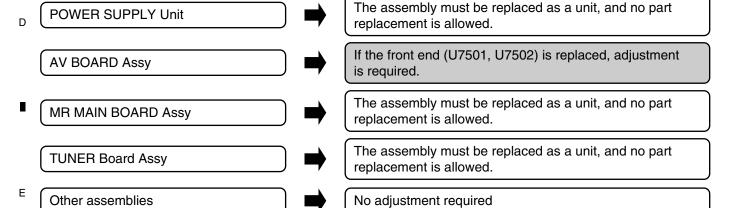
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#### 6.2 POSSIBLE CASES WHERE READJUSTMENT IS REQUIRED

#### ■ When any of the following assemblies is replaced

	POWER SUPPLY Unit	<b>→</b>	No adjustment required
	AV BOARD Assy	$\rightarrow$	No adjustment required
С	MR MAIN BOARD Assy	$\rightarrow$	No adjustment required
	TUNER Board Assy	<b>→</b>	No adjustment required However, HOST ID is changed. Please tell a customer about new HOST ID. Refer to the following note and instruction manual.
	Other assemblies	<b></b>	No adjustment required

#### ■ When any part in the following assemblies is replaced



### ■ Adjustment items

- 1) Audio Level Adjustment
- ② Video Level Adjustment
- 3 Audio Level Adjustment
- 4 MSP Adjustment
- 5 MSP Adjustment

#### NOTE: Checking the Cable Card ID

The Media Receiver has a slot for a cable card that is used for managing your information by the cable TV company. The following procedure allows you to check your Cable Card ID and the Host ID.

- 1 Press HOME MENU.
- 2 Select "Tuner Setup". (♠/♦ then ENTER)
- 3 Select "Channel Setup". ( ←/→ then ENTER)
- 4 Select "POD ID". ( ♣/★)
  - The Host ID and Cable Card ID appear.
- 5 Press HOME MENU to exit the menu.

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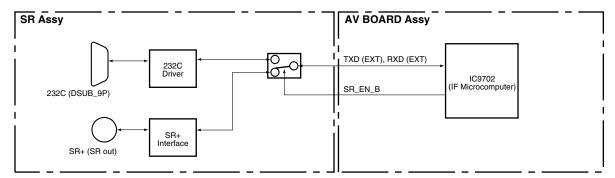
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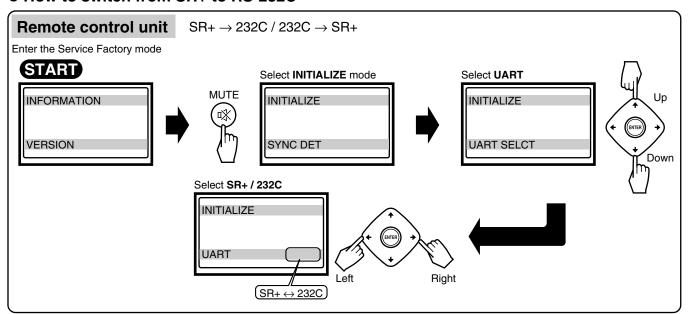
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For the PDP-435HD and PDP-505HD series Plasma Displays, the circuitry is structured as shown in the diagram below to support the SR+ system. Controlling with either the SR+ system or RS-232C commands can be selected. As the SR+ system is selected at shipment, to control with RS-232C commands in servicing it is necessary to switch the paths. After servicing, be sure to return the setting to the SR+ system.

#### Rough diagram of switching between SR+ and RS-232C



#### How to switch from SR+ to RS-232C



Tips: How to change the SR+/RS-232C setting without entering Service Factory mode

Hold the **VOLUME** ⊿+ or ⊿− key on the remote control unit pressed for 3-10 seconds during Standby mode.

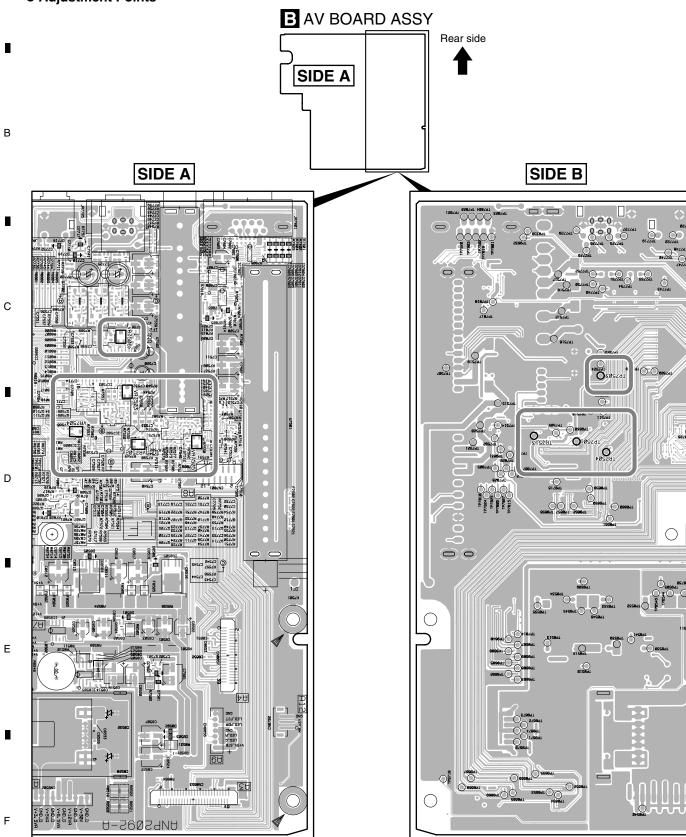
Then within 3 seconds after the key is released, hold the **2-screen** • key on the remote control unit pressed for 3-10 seconds. Then within 3 seconds after the key is released, use the SET key on the remote control unit to set to RS-232C (the baud rate last selected is chosen) or the HOME MENU key to set to SR+.

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If readjustment is necessary because of adjustment error at shipment, perform adjustments as shown below.

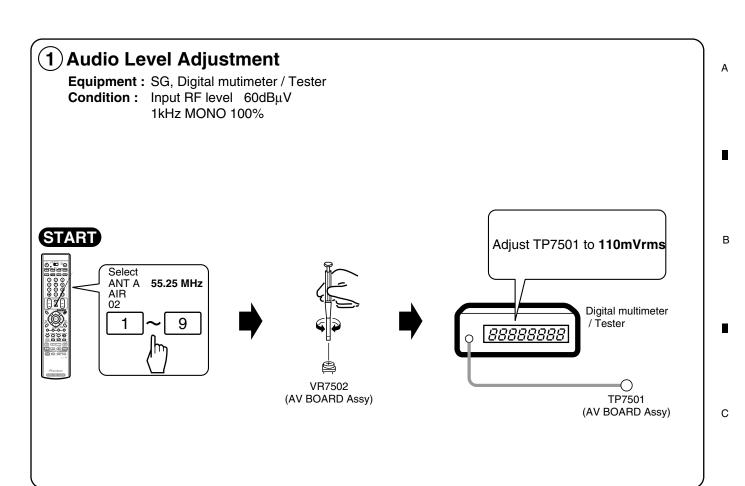
Adjustment Points

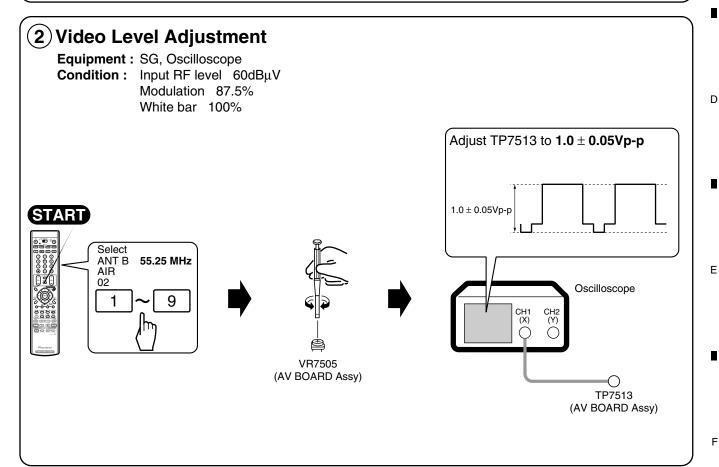


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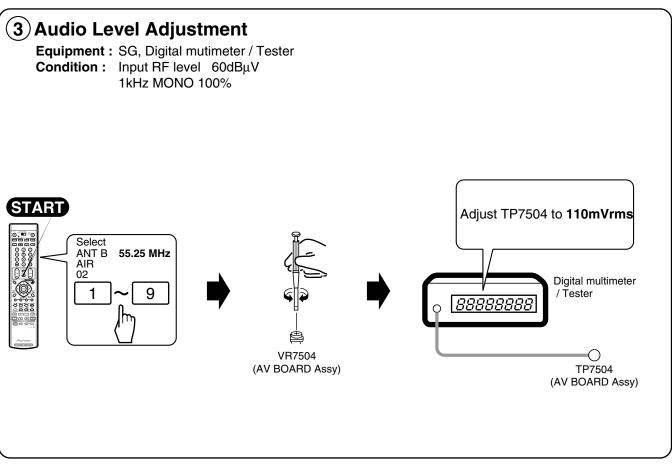
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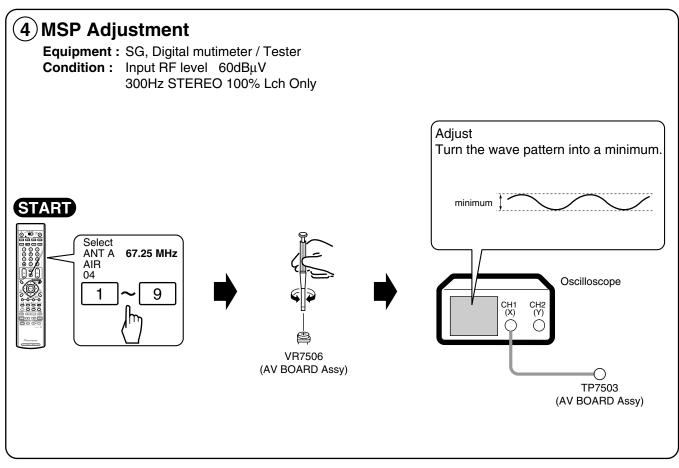
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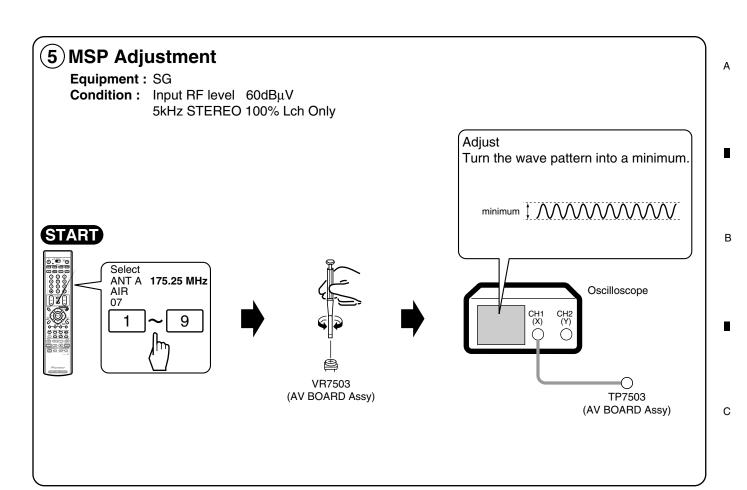
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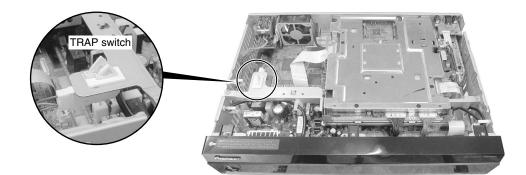
# Outline and Notes

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For video data transmission from the Media Receiver to the PDP-435HD and PDP-505HD-series Plasma Displays, digital signals are used. Therefore, this unit adopts the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a detection switch (TRAP switch) that will prohibit the unit from being turned on again "if the upper plate of the unit is accidentally opened," in order to prevent the panel technology from being leaked out.

The TRAP switch is disabled while the unit is turned off.

When performing internal diagnosis of the PDP, fix the switch to the OFF position using adhesive tape before turning on the unit. After servicing, be sure to remove the adhesive tape.



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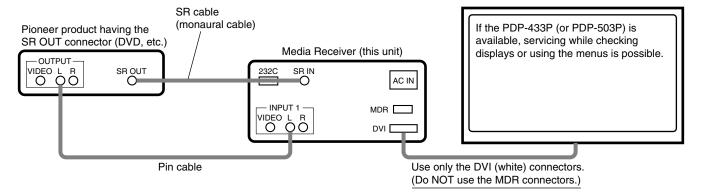
#### 6.6 SERVICING USING ONLY THE MEDIA RECEIVER

For servicing of the PDP-435HD and PDP-505HD-series Plasma Display using only the Media Receiver, the following two methods can be used:

#### Remote controlling using SR connections

#### **About connections**

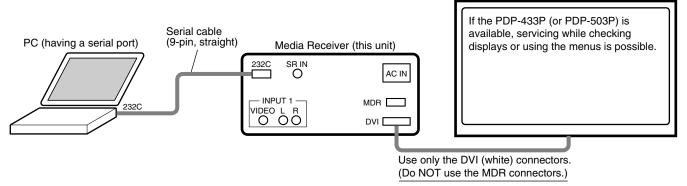
- Connect the SR OUT connector of a Pioneer product having that connector (a DVD in the following example) and the SR IN connector of the Media Receiver, using the SR cable. As the remote control sensor is not provided with the Media Receiver, this connection is required for using the remote control unit if the panel is not available. In this case, aim the remote control unit at the remote control sensor of the device (DVD in this case).
- Connect either the audio or the video output of the device (DVD in the example) and the corresponding audio or video input of the Media Receiver, using a cable with phono plugs. This connection is required in order to use ground in common with the SR cable, because with the SR cable connection the ground connection for signal reference is not available. In the example, the audio L channel is used, but the audio R channel or video can be used instead.
- If the plasma display for a previous model, such as the PDP-433P or PDP-503P, is available, servicing while checking displays or using the menus is possible. For this, connect only the DVI connectors (white) of the Media Receiver and the plasma display. The MDR connector of the Media Receiver must not be used, even though it has the same shape and number of pins, because signals assigned to the connectors differ. Using the MDR connector may damage the unit.



#### RS-232C control using a PC

In this case the setting is RS-232C 38400bps, and the setting of "6.3. USING RS-232C COMMANDS" is not related. Please set baud rate of PC in 38400bps.

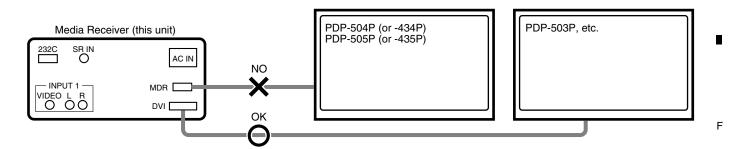
For connection with the PC, use a straight cable.



#### Note on connection

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If the MDR connector of the PDP-434HD or -504HD-series is used, it is considered that the PDP-434P (or -504P) is connected, and the Media Receiver operates on such precondition, **which may result in a failure of the Media Receiver. Be sure not to connect to the MDR connector.** (Do NOT use the MDR connector when servicing the Media Receiver alone.)



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#### 6.7 SERVICE FACTORY MODE

To operate in Service Factory mode, use the supplied remote control unit.

#### How to enter Service Factory Mode

Prease refer to the technical documentation (Service Know-How). same as

#### Operation in Service Factory mode

#### Functions whose settings are set to OFF

The settings for the following functions are set to OFF when Service Factory mode is entered (including when the "FAY" command is received):

- Two-screen operations (input function set on the main side is selected)
- P ZOOM
- STILL
- Detection of the TRAP switch (The log in the EEPROM is retained.)

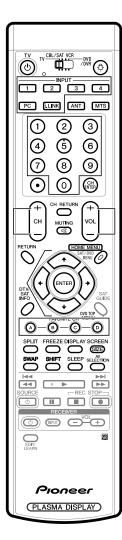
#### User data

User data will be treated as follows:

- User data on picture- and audio-quality adjustments are not reflected (data stored in memory will be retained).
- Data on screen position are reset to the default values (data stored in memory will be retained).

#### ■ Remote control codes in Service Factory mode

SR Function Main Function		Remarks
Muting	Switching the main items	Shifting to the next main item
DOWN	Switching the subtitled items	Shifting downward to the next subtitled item
UP	Switching the subtitled items	Shifting upward to the next upper layer
LEFT	Increasing the adjustment value	Increasing the adjustment value
RIGHT	Decreasing the adjustment value	Decreasing the adjustment value
SET	Switching layers	Shifting downward or upward to the next lower or upper layer
INPUT	Selecting input	Shifting the input to the next function
INPUTxx	Selecting input	Switching the input to xx
CH+	Increasing the channel number	Advancing a preset channel (effective when Function is set to TV)
CH-	Decreasing the channel number	Turning a preset channel backward (effective when Function is set to TV)
Numeric keys Function: TV		Function: TV (previously selected channel number is selected)
POWER	Power OFF	Turning the power off
FACTORY	Factory OFF	Turning Service Factory mode off
MENU	Menu ON	Turning Service Factory mode off and Menu mode on



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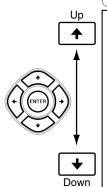
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#### **1) INFORMATION mode**



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- 1. VERSION (1)
- . VERSION (2)
- 2. SERIAL
- 3. PANEL PD
- 4. PANEL SD
- 5. MR NG
- 6. TEMPERATURE
- 7. HOUR METER
- 8. MR HOUR METER
- 9. PULSE METER
- 10. P ON COUNTER
- 11. DIGITAL EEPROM
- 12. HDMI SIGNAL INFO1
  - . HDMI SIGNAL INFO2 . DTV TUNING STATUS1

  - . DTV TUNING STATUS2



#### **6 INITIALIZE mode**

- 1. SYNC DET
- 2. DRIVE MODE
- 3. SIDE MASK LEVEL
- 4. PANEL REVICE
- 5. FINAL SETUP
- 6. C TEMP LOW
- 7. C TEMP MID LOW
- 8. C TEMP MID
- 9. C TEMP MID HIGH
- 10. C TEMP HIGH
- 11.
- 12. UART SELECT
- 13. CVT AUTO
- 14. HDMI INTR POSITION SUS FREQ MODE





#### **2 FUNCTION CHECK mode**

- 2.
- 3.
- 4.
- 5. FAN
- 6. AFT LOCK



**③ INDIVIDUAL mode** 

- 1. CVY GAIN
- 2. RY GAIN
- 3. GY GAIN
- 4. BY GAIN



#### 4 COMMON ADJ. mode

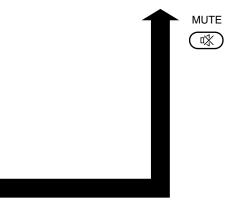
- 1. RGB 1

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- 3. PANEL 1
- 4. PANEL 2



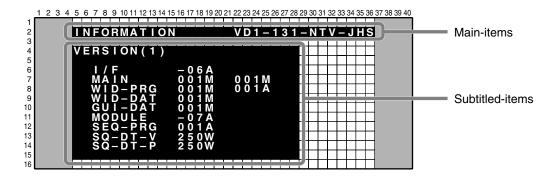
- 1. MASK
- 2. 3. PEAK LIMITER
- 4. DYNAMIC RANGE
- 5. EDIT WRITE MODE
- 7. 8.
- 9.
- 10.
- 11.
- 12.
- 13. CH PRESET
- 14. ANTENNA MODE



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#### ■ Indications in Service Factory mode

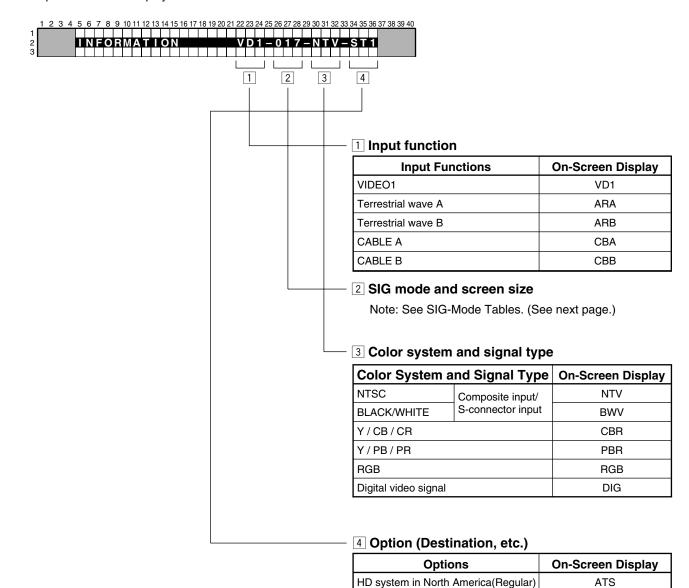


#### ■ Main-item indications

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Four parameters are displayed:



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HD system in North America(ELITE)

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#### • SIG-Mode Table

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The signal mode is displayed in three characters:

First character: Resolution of the input signal (numerics for the video signals, and alphabetics for the PC signals)

Second character: Grouping of the V frequencies

#### SIG-Mode table for video signals (resolutions and V frequencies)

SIG-Mode	Signal Type	Vertical Frequency fv (Hz)	Horizontal Frequency fh (kHz)
13*	SDTV • 525i	60.000	15.750
21*	SDTV • 625i	50.000	15.625
33*	SDTV • 525p	60.000	31.500
41*	HDTV • 1125i	50.000	28.125
43*		60.000	33.750
51*	SDTV • 625p	50.000	31.250
61*	HDTV • 750p	50.000	37.500
63*		60.000	45.000

#### SIG-Mode table for PC signals (resolutions and V frequencies)

	<u> </u>	·
Signal Type	Vertical Frequency fv (Hz)	Horizontal Frequency fh (kHz)
720 × 400	56.000	24.825
	70.087	31.469
	85.050	37.861
640 × 480	59.940	31.469
	66.666	35.000
	72.809	37.861
	75.000	37.500
	85.000	43.300
852 × 480	60.000	31.680
800 × 600	56.250	35.1556
	60.317	37.879
	72.188	48.077
	75.000	46.875
	85.061	53.674
832 × 624	74.550	49.725
1024 × 768	60.004	48.363
	70.069	56.476
	75.029	60.023
	84.997	68.677
1280 × 768	56.250	45.113
	59.833	47.986
	70.000	56.137
	720 × 400 640 × 480 852 × 480 800 × 600 832 × 624 1024 × 768	Signal Type         fv (Hz)           720 × 400         56.000           70.087         85.050           640 × 480         59.940           66.666         72.809           75.000         85.000           852 × 480         60.000           800 × 600         56.250           60.317         72.188           75.000         85.061           832 × 624         74.550           1024 × 768         60.004           70.069         75.029           84.997         1280 × 768         56.250           59.833         59.833

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2nd Character **Reference V Frequency** Remarks No signal 1 50 2 56 3 60 4 66 5 70 For interpolation of 72-Hz area 6 For distinguishing between 70-Hz or 75-Hz area 7 8 85 9 (spare) ? \_ Out of range

Third character: Selection of the screen size by the user is displayed. (O: available,  $\times$ : not available)

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3rd Character	Description on GUI	VIDEO	PC	Remarks
0	DOT BY DOT	×	0	
1	4:3	0	0	
2	FULL (FULL1)	0	0	
3	ZOOM	0	×	
4	CINEMA	0	×	
5	WIDE	0	×	Indude WIDE-HD
6	FULL 14:9	0	×	
7	CINEMA 14:9	0	×	
8	FULL2	0	0	HDTV1035i
9	OVERSCAN	0	×	

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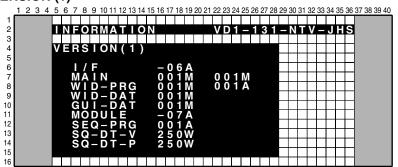
#### **1) INFORMATION mode**

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#### Operation items

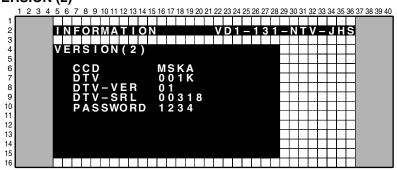
No.	Function / Display	Content	
1	VERSION (1)	The flash memory versions for each device are displayed. (common part)	
2	VERSION (2)	The flash memory versions for each device are displayed. (individual part)	
3	SERIAL	For displaying the serial number of the product (not used)	
4	PANEL PD	Power-down generated on the panel side and its time of occurrence are displayed.	
5	PANEL SD	Shutdown generated on the panel side and its time of occurrence are displayed.	
6	MR NG	Power-down and/or shutdown generated on the Media Receiver side and their/its time of occurrence are displayed.	
7	TEMPERATURE	Information on temperature is displayed.	
8	HOUR METER	Cumulative power-on time to the panel is displayed.	
9	MR HOUR METER	Cumulative power-on time to the Media Receiver is displayed.	
10	PULSE METER	The pulse meter value on the panel side is displayed.	
11	P ON COUNTER	The number of times the power to the panel was turned on is displayed.	
12	DIGITAL EEPROM	The status of the backup data for the module microcomputer is displayed.	
13	HDMI SIGNAL INFO.	The file information of HDMI series are displayed.	
14	DTV TUNING STATUS	Information of DTV Tuning Status are displayed.	

#### 1. VERSION (1)



Flash memory of Device	On-Screen Display
User IF microcomputer (MR: IC8702)	I/F
Main microcomputer (MR: IC7207)	MAIN
Program for IC 3 (MR: IC7101)	WID-PRG
Enhanced data for IC 3 (MR: IC7101)	WID-DAT
GUI data for IC 3 (MR: IC7101)	GUI-DAT
Module microcomputer (for the PDP)	MODULE
Program for IC 4 (for the PDP)	SEQ-PRG
Sequence data for IC 4 Video	SQ-DT-V
Sequence data for IC 4 PC	SQ-DT-P

#### 2. VERSION (2)



Device	Name Display	Version Display	Remarks
CCD-UCOM	CCD	4 character	
DTV Software Version	DTV	4 character	
DTV hardware Version	DTV-VER	2 character	
DTV hardware Serial	DTV-SRL	6 character	
USER Password	PASSWORD	4 character	
USEN Password	FASSWOND	4 Character	

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#### 4. PANEL PD

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1 2 3 4 5 6 7 8 9 1011 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

INFORMATION VOID 1 3 NTV ST1

PANEL PD
FIRST SECOND

1 X - DRV POWER 005 23 H5 1 M
2 Y - SUS Y - DCDC 002 75 4 4 2 M
3 SCAN - --- 000 90 H5 0 M
10 4 Y - DCDC POWER 000 2 H3 1 M
11 5 SCN - 5 V POWER 000 2 H3 1 M
12 6 ADRS - --- 000 00 0 H0 7 M
13 7 H M
14 8 H M

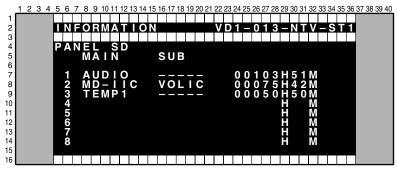
Power-down information only on the panel side is displayed.

#### • Panel power-down information

No.	Type of Power-down	On-Screen Display	No.	Type of Power-down	On-Screen Display
1	No corresponding item		8	Power-down of the address system	ADRS
2	Power-down of the main power supply system	POWER	9	Power-down of the X-DRIVE circuitry	X-DRV
3	Power-down of the scanning system	SCAN	Α	Power-down of the X-DC/DC converter	X-DCDC
4	Power-down in the path between the scanning system and 5-V power supply	SCN-5V	В	Power-down of the X-SUS system	X-SUS
5	Power-down of the Y-Drive system	Y-DRV	С	Power-down of the driving IC power supply system	D-DCDC
6	Power-down of the Y-DC/DC converter	Y-DCDC	D	Power-down of the driving stopped	IC4 (IC5401)
7	Power-down of the Y-SUS system	Y-SUS	F	Power-down point unidentified	UNKNOWN

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#### 5. PANEL SD



The shutdown log only on the panel side is displayed.

#### • Panel shutdown information

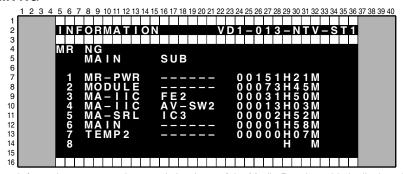
	Tallet shakeown information		
No.	Type of Shutdown	On-Screen Display (MAIN)	Remarks
1	Abnormality in IC 4 communication	IC4	
2	Abnormality in module microcomputer IIC communication	MD-IIC	Subcategories exist. (EROM4K : IC5206, EROM2K : IC402, VOLIC : IC3502)
3	Abnormality in RST2	RST2	
4	Abnormality in panel temperature	TEMP1	
5	Short-circuiting of the speakers	AUDIO	

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#### 6. MR NG



Information on power-down and shutdown of the Media Receiver side is displayed.

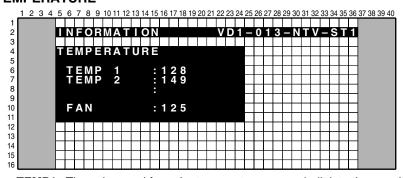
#### • Media Receiver NG information

No.	Type of Failure	On-Screen Display (MAIN)	Remarks
1	Abnormality in module microcomputer communication	MODULE	
2	Abnormality in 3-wire serial communication of the main microcomputer	MA-SRL	Subcategories exist.
3	Abnormality in main microcomputer IIC communication	MA-IIC	Subcategories exist.
4	Abnormality in main microcomputer communication	MAIN	
5	Abnormality in temperature of the Media Receiver	TEMP2	
6	Fan stopped.	FAN	
7	Abnormality in communication of the digital tuner	UART	Subcategories exist.
8	Abnormality in the ASIC power supply on the MR side	M-DCDC	

#### Subcategory information

Type of Shutdown Subcategory		Remarks
MA-SRL	IF microcomputer (IC8702), IC2 (IC7004), IC3 (IC7101)	
MA-EEP (IC7205), IC1-M (IC6107), IC1-S (IC6255), HDMI1 (IC6801), HDMI2 (IC6881)*2, AD-M (IC6402), AD-S (IC6602), IC6 (IC6951), CCD (IC8903)*2, FE1 (U7501), FE2 (U7502)*2, AV-SW1 (IC8002), AV-SW2 (IC8005), TX-COM (IC8904)*3, MPX (IC7502)*3, TX-BSY(IC8904)*3		*2 : U.S. model only *3 : Europe model and General area model
Interval UART	PS/RST	No power, or reset status continued
Communication	RETRY	The signal 0x02 (ready) has not been received.
	DEVICE	Receive System Query Request Command
	CD-COM	PC Card Module Communication
	CD-DEV	PC Card Module
	CD-RST	PC Card Reset NG

#### 7. TEMPERATURE



**TEMP1:** The value read from the temperature sensor built into the panel is displayed in the range of 000-255.

**Note:** Refer to the service manual of the panel.

**TEMP2:** The value read from the temperature sensor built into the Media Receiver is displayed in the range of 000-255. For reference, the approximate value for 60°C is 86 and for 35°C is 67.

Reference: When TEMP2 exceeds 100 (about 78°C), SD LED flash 11 times.

**FAN:** The value of the Fan output is displayed. At shipment, the output is controlled in 2 steps, and the value for strong output is set to about 131, and the value for weak output is set to about 93.

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#### 8. HOUR METER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

INFORMATION VD1 - 0 1 3 - NTV - ST1

HOUR METER

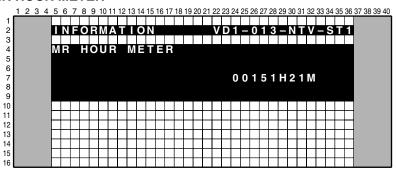
0 0 1 5 1 H 2 1 M

11
12
13
14
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16

The cumulative power-on time of the panel is displayed.

#### 9. MR HOUR METER

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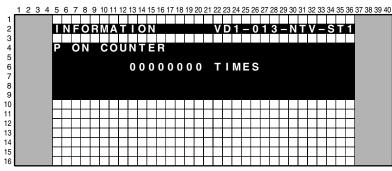
The cumulative power-on time of the Media Receiver is displayed.

#### **10. PULSE METER**

The cumulative number of pulses of the panel is displayed.

Note: Dividing screen into sixteen times sixteen and counting five different locations on a screen. Each item, it's counted total 3840 pixels (for 50 inch) or 3072 pixels (for 43 inch) discharging. (1280/16 x 768/16 = 3840, 1204/16 x 768/16 = 3072)

#### E 11. P ON COUNTER



The cumulative number of times the panel was turned on is displayed.

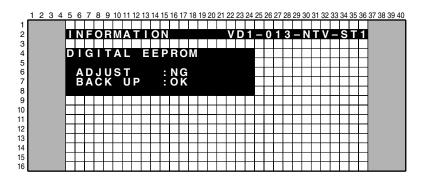
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#### 12. DIGITAL EEPROM

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When the DIGITAL Assy of the PDP is to be replaced, the adjustment values in it can be temporarily stored in the ROM then be written on the new Assy after replacement.

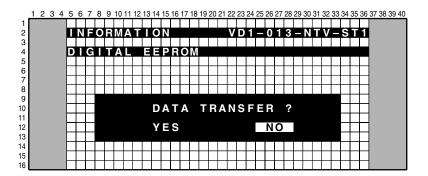
Whether adjustment has been made on the DIGITAL Assy of the PDP or not (i.e., in the state of a new service part), and whether the data on any adjustment values are retained in the backup ROM or not are displayed.



#### . Downloading the data from the backup ROM

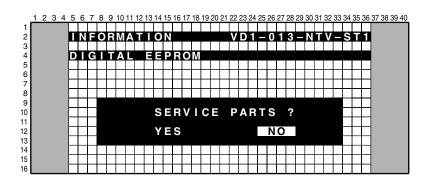
(This must be performed after the DIGITAL Assy is replaced.)

To download the data from the backup ROM, press the ENTER key while the above screen is displayed. The display changes as shown below. Move the cursor to YES then press the ENTER key. The data in the backup ROM are downloaded into the new Assy.



#### • Clearing the data in the ROM of the DIGITAL Assy

The display below is automatically displayed after either YES or NO is selected on the display shown above. Move the cursor to YES then press the ENTER key. Then all data on adjustment values in the ROM of the DIGITAL Assy are cleared.



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#### 13. HDMI SIGNAL INFO

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Technical examination display (Reading status registers in HDMI receiver and displaying them by HEX value.)

For technical discussion

#### **14.DTV TUNING STATUS**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 44

INFORMATION CBA-4 3 2 - DIG-KHS

DTV TUNING STATUS 1

INBAND FREQUENCY : 6 7 5 MHz
MODULATION : QAM 2 5 6
STATUS : LOCK
AGC : 8 5 %

CORRECTED ERROR : 1 2 3 4 5
UNCORRECTED ERROR : 6 7 8
TIME : 4 5 s e c

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1 INFORMATION CBA-4 3 2 - DIG-KHS

DTV TUNING STATUS 2

OOB FREQUENCY : 70 .00 MH z
STATUS : UNLOCK
AGC : 72%

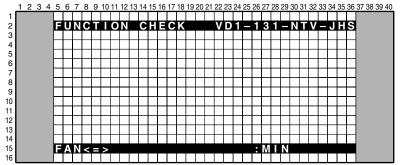
PROGRAM NUMBER : 3
VIDEO PID : 201
AUDIO PID : 201
AUDIO PID : 201
VIDEO FORMAT : 10 8 0 I / 16 : 9

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1 2 ■ 3 ■ 4

#### **2 FUNCTION CHECK**

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No last memory in this menu

No.	Display	Detail	Remarks	232C Command
1	FAN <=>	$MIN \Leftrightarrow CNT \Leftrightarrow MAX$		*1
2	AFT <=>	UNLOCKED ⇔ LOCKED	For Factory use	AFT

#### **2.1 FAN**

Controls FAN speed by force. (MIN: STOP, CNT: Follows movement specifications, MAX: High)

Temp sensor is working only displaying data value in service factory mode.

After getting off service factory mode, this function is set to normal automatically.

#### 2.2 AFT LOCK

For production line use only

Stop AFT tuner received function and receive a center frequency.

After turning off a unit (including stand-by mode), this setting is set normal (AFT function) automatically.

It's performed to two tuner and DTV tuner to U.S. model.

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#### **⑤ OPTION mode**

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

OPTION

VD1 - 1 3 1 - NTV - J HS

OPTION

MASK (+)

MASK (+)

No.	Function/Display	Content	Corresponding RS-232C Command
1	MASK (+)	Selecting the pattern mask of IC4	MSK
2	PEAK LIMITTER	ON ⇔ OFF	PLT
3	DYNAMIC RANGE	ON ⇔ OFF	DYR
4	EDID WRITE MODE	DISABLE ⇔ ENABLE	EPA
5	CH PRESET	FACTORY ⇔ USER	

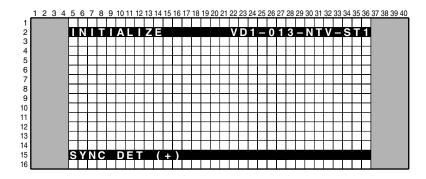
The mask frequency can be cyclically changed (see the table below) by pressing the left or right cursor key. The mask pattern can be cyclically changed by pressing the up or down cursor key. Approximately 2 seconds after either the up or down cursor key is pressed, the mask screen will appear.

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#### • Frequency selection while the mask is displayed

Corresponding No. Function/Display Content **RS-232C Command** V50 F50 0 Video 50-Hz sequence V60 (initial value) 1 Video 60-Hz sequence F60 2 P60 F61 PC 60-Hz sequence 3 P70 PC 70-Hz sequence F70 V72 F72 Video 72-Hz sequence 5 V75 F75 Video 75-Hz sequence

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No.	Function/Display	Content
1	SYNC DET (+)	
2	DRIVE MODE (+)	
3	SIDE MASK LEVEL (+)	
4	PANEL REVICE (+)	
5	FINAL SETUP (+)	
6	C TEMP LOW (+)	
7	C TEMP MID LOW (+)	
8	C TEMP MID (+)	
9	C TEMP MID HIGH (+)	
10	C TEMP HIGH (+)	
11	UART SELECT <=>	1200-232C ⇔ ••• ⇔ 38400-232C ⇔ 9600-SR+
12	CVT AUTO <=>	DISABLE ⇔ ENABLE (For Factory use)
13	HDMI INTR POSITION(+)	
14	SUS FREQ MODE<=>	000⇔ ••• ⇔ 007

• When there is a modification log, if the "Display" key is held pressed for at least 3 seconds while the above display is displayed, the modification log will be cleared.

#### • UART SELCT

Option No.	Function / Display	Operation / Control	Remarks
1 (initial setting)	9600-SR+	To set to SR+ (9600 BPS)	
2	1200-232C	To set to RS-232C (1200 BPS)	
3	2400-232C	To set to RS-232C (2400 BPS)	
4	4800-232C	To set to RS-232C (4800 BPS)	For switching external communication between RS-232C and SR+
5	9600-232C	To set to RS-232C (9600 BPS)	between no 2020 and one
6	19200-232C	To set to RS-232C (19200 BPS)	
7	38400-232C	To set to RS-232C (38400 BPS)	

Tips: How to change the SR+/RS-232C setting without entering Service Factory mode Refer to "6.3 USING RS-232C COMMANDS".

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## 6.8 LIST OF RS-232C COMMANDS

RS-232C commands can be used in Service Factory mode.

Before using RS-232C commands, it is necessary to change the factory presetting. See "6.3. USING RS-232C COMMANDS."

Command	Operation	Remarks
A	Operation	Tiemarks
ABL	Adjusting power consumption	
B	Adjusting power consumption	
BCP	Transmitting the backup data to the DIGITAL Assy	
	·	
BYG	BY GAIN	
С		
CHM	Clearing the hour motor	
CNG	Clearing MR NO information	
CPC	Clearing MR NG information Clearing the power-on counter	
CPD CPM	Clearing the pulse meter	
CSD	Clearing the pulse meter	
D	Clearing shutdown information	
	Turning on the on care on display	While the OCDCOL command is in favor, the direction of an eave on display is
OSDS01	Turning on the on-screen display	While the OSDSOI command is in force, the duration of on-screen display is
OSDS00	Turning off the on-screen display	On-screen display is prohibited.
DRF	Turning off the power for the drive system	
DRN DW*	Turning on the power for the drive system	* 4 0 0 (0 man = 40) as 5 (malibraths adjustment value the anisismum)
	Decreasing the adjustment value by *	*: 1-9, 0 (0 means 10), or F (making the adjustment value the minimum)
E	5 1 1 11 11 11 11 11 11 11 11 11 11 11 1	
EDWS00	Prohibiting writing of EDID data	
EDWS01	Permitting writing of EDID data	
F	V. 1 . 50 II	
F50	Video 50-Hz sequence	
F60	Video 60-Hz sequence	
F61	PC 60-Hz sequence	
F70	PC 70-Hz sequence	
F72	Video 72-Hz sequence	
F75	Video 75-Hz sequence	
FAJ	Determining the adjustment values for the unit	
FAY	Turning Service Factory mode on	The CIII again clear to that usually displayed when the payor is turned an is displayed
FAN <b>G</b>	Turning Service Factory mode off	The GUI equivalent to that usually displayed when the power is turned on is displayed.  The GET-group commands are effective at any time, including during Standby mode.
	Obtaining the adjustment values for the name	The GET-group commands are effective at any time, including during Standby mode.
GAJ GMM	Obtaining the adjustment values for the panel	Sotting value: 000 007
GNG	Switching the gamma levels Obtaining NG data of the MR	Setting value: 000-007
GNM		
GPC	Obtaining the serial No. of the MR	
GPD	Obtaining the P ON COUNTER value Obtaining power-down information	
GPR	v ·	
GPM	Obtaining the PANEL REVISE data Obtaining the PULSE METER data	
GPW	-	
GPW GS1	Obtaining the PANEL W/B data	
	Obtaining the version data for each device	
GS2	Obtaining data on various operations	
GS6 GSD	Obtaining the any version Obtaining shutdown information	
GSL	Adjusting side mask G	
L GOL	Aujusting side mask d	L

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MSKS54 Raster-blue MSKS55 Raster-black MSKS56 Raster-cyan MSKS57 Raster-magenta MSKS58 Raster-yellow MSKS59 Raster-cyan 274 MSKS60 Raster-50 flesh color MSKS61 Raster-50 light purple MSKS62 Raster-50 sky blue MSKS63 Raster-red 779 MSKS64 Raster-cyan 218 MSKS65 Raster-cyan 448 Raster-43 flesh color MSKS66 MSKS67 Raster-red 640 Ε MSKS68 Raster-magenta 98 MSKS69 Raster-43 sky blue 1 Raster-43 sky blue 2 MSKS70 MSKS71 Raster-43 light purple MSKS72 Raster-blue 960 MSKS73 Raster-gray 511 (spare) MSKS74 Raster-gray 511 (spare)

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1 2 3 4

Command	Operation	Remarks
М		
MRG	AD MAIN R GAIN	
MRO	AD MAIN R OFFSET	
MGG	AD MAIN G GAIN	
MGO	AD MAIN G OFFSET	
MBG	AD MAIN B GAIN	
MBO	AD MAIN B OFFSET	
P	7.5 111 111 5 5 1 1 5 2 1	
PBH	Panel W/B B-HIGH adjustment	
PBL	Panel W/B B-LOW adjustment	
PGH	Panel W/B G-HIGH adjustment	
PGL	Panel W/B G-LOW adjustment	
POF	Turning the power OFF	
PRH	Panel W/B R-HIGH adjustment	
PRL	Panel W/B R-LOW adjustment	
R	Tanci W/D II EOW adjustment	
RYG	RY GAIN	
RSL	Adjustment of side mask R	
S	Adjustment of side mask it	
S1G	IC1 SUB GAIN	
S10	IC1 SUB OFFSET	
SBG	AD SUB B GAIN	
SBO	AD SUB B OFFSET	
SFI	Initialization of the full mask table	
SGG	AD SUB G GAIN	
SGO	AD SUB G OFFSET	
SRG	AD SUB R GAIN	
SRO	AD SUB R OFFSET	
0.10	7.5 005 11 01 1 02 1	
Т		
TSY	Enabling the TRAP switch	The command is effective even during Standby mode.
U		The command to checking ordinary mode.
UP*	Increasing the adjustment value by *	*: 1-9, 0 (0 means 10), or F (making the adjustment value the maximum)
UAJ	Resetting all data in the DIGITAL Assy to those of a new service part	the control of the co
V	January Community Control Part	
VOF	Offset voltage adjustment	
VSU	SUS voltage adjustment	
X	J	
XD1	D1 trailing-edge pulse of X-SUS	
XD2	D2 trailing-edge pulse of X-SUS	
XU1	U1 leading-edge pulse of X-SUS	
XU2	U2 leading-edge pulse of X-SUS	
Y		
YD1	D1 trailing-edge pulse of Y-SUS	
YD2	D2 trailing-edge pulse of Y-SUS	
YD3	D3 trailing-edge pulse of Y-SUS	
YD4	D4 trailing-edge pulse of Y-SUS	
YU1	U1 leading-edge pulse of Y-SUS	
YU2		
	U2 leading-edge pulse of Y-SUS	

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# **■** GET Commands

#### GS1: Returning information on the model and the version of the software

Order	Data	Size
1	Data on the display	3 bytes
2	Version of the module microcomputer	4 bytes
3	Version of the IC4-MANTA	4 bytes
4	Sequence version (50VIDEO)	4 bytes
5	Sequence version (50PC)	4 bytes
6	Sequence version (43VIDEO)	4 bytes
7	Sequence version (43PC)	4 bytes
8	Version of the IF microcomputer	4 bytes
9	Version of the main microcomputer boot Software	4 bytes
10	Version of the main microcomputer	4 bytes
11	Version of the IC3 boot Software	4 bytes
12	Version of the IC3 Program	4 bytes
13	Version of the IC3 Enhanced	4 bytes
14	Version of the IC3 GUI	4 bytes

#### Breakdown of the data on the display

Data	Model
HD5	PDP-505HD series
HD4	PDP-435HD series

#### GPM: Returning the data of the PDP pulse meter

Order	Data	Size
1	Pulse meter (Block area 1)	10 bytes
2	Pulse meter (Block area 2)	10 bytes
3	Pulse meter (Block area 3)	10 bytes
4	Pulse meter (Block area 4)	10 bytes
5	Pulse meter (Block area 5)	10 bytes

Note: Refer to the service manual of the panel.

GPC: Returning the cumulative number of times the power to the PDP was turned on

Order	Data	Size
1	Power-on counter	8 bytes

#### • Commands for clearing the logs

Parameter	Corresponding RS-232C Command
PD INFO	CPD
SD INFO	CSD
NG INFO	CNG
HOUR METER	CHM
MR HOUR METER (Only for the system model)	CHR
PULSE METER	СРМ
P ON COUNTER	CPC

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#### A **GPD:** Returning the power-down data (log) of the PDP

Order	Data	Size	Order	Data	Size
1	Latest "1st PD" data	1 byte	17	Fifth latest "1st PD" data	1 byte
2	Latest "2nd PD" data	1 byte	18	Fifth latest "2nd PD" data	1 byte
3	Data of hour meter for the latest PD	7 bytes	19	Data of hour meter for the fifth latest PD	7 bytes
4	Data on temperature for the latest PD (TEMP1)	3 bytes	20	Data on temperature for the fifth latest PD (TEMP1)	3 bytes
5	Second latest "1st PD" data	1 byte	21	Sixth latest "1st PD" data	1 byte
6	Second latest "2nd PD" data	1 byte	22	Sixth latest "2nd PD" data	1 byte
7	Data of hour meter for the second latest PD	7 bytes	23	Data of hour meter for the sixth latest PD	7 bytes
8	Data on temperature for the second latest PD (TEMP1)	3 bytes	24	Data on temperature for the sixth latest PD (TEMP1)	3 bytes
9	Third latest "1st PD" data	1 byte	25	Seventh latest "1st PD" data	1 byte
10	Third latest "2nd PD" data	1 byte	26	Seventh latest "2nd PD" data	1 byte
11	Data of hour meter for the third latest PD	7 bytes	27	Data of hour meter for the seventh latest PD	7 bytes
12	Data on temperature for the third latest PD (TEMP1)	3 bytes	28	Data on temperature for the seventh latest PD (TEMP1)	3 bytes
13	Fourth latest "1st PD" data	1 byte	29	Eighth latest "1st PD" data	1 byte
14	Fourth latest "2nd PD" data	1 byte	30	Eighth latest "2nd PD" data	1 byte
15	Data of hour meter for the fourth latest PD	7 bytes	31	Data of hour meter for the eighth latest PD	7 bytes
16	Data on temperature for the fourth latest PD (TEMP1)	3 bytes	32	Data on temperature for the eighth latest PD (TEMP1)	3 bytes

#### • Details on "1st/2nd PD" data

Data	Power-down Point
0	No power-down
1	Not used (for MR-POWER)
2	P-POWER
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADRS
9	X-DRIVE
Α	X-DCDC
В	X-SUS
С	DIG-DCDC
D	IC4
F	Power-down point not identified

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#### GSD: Returning the shutdown data (log) of the PDP

Order	Data	Size	Order	Data	Size
1	Latest SD data	1 byte	17	Fifth latest SD data	1 byte
2	Data of subcategory for the latest SD	1 byte	18	Data of subcategory for the fifth latest SD	1 byte
3	Data of hour meter for the latest SD	7 bytes	19	Data of hour meter for the fifth latest SD	7 bytes
4	Data on temperature for the latest SD (TEMP1)	3 bytes	20	Data on temperature for the fifth latest SD (TEMP1)	3 bytes
5	Second latest SD data	1 byte	21	Sixth latest SD data	1 byte
6	Data of subcategory for the second latest SD	1 byte	22	Data of subcategory for the sixth latest SD	1 byte
7	Data of hour meter for the second latest SD	7 bytes	23	Data of hour meter for the sixth latest SD	7 bytes
8	Data on temperature for the second latest SD (TEMP1)	3 bytes	24	Data on temperature for the sixth latest SD (TEMP1)	3 bytes
9	Third latest SD data	1 byte	25	Seventh latest SD data	1 byte
10	Data of subcategory for the third latest SD	1 byte	26	Data of subcategory for the seventh latest SD	1 byte
11	Data of hour meter for the third latest SD	7 bytes	27	Data of hour meter for the seventh latest SD	7 bytes
12	Data on temperature for the third latest SD (TEMP1)	3 bytes	28	Data on temperature for the seventh latest SD (TEMP1)	3 bytes
13	Fourth latest SD data	1 byte	29	Eighth latest SD data	1 byte
14	Data of subcategory for the fourth latest SD	1 byte	30	Data of subcategory for the eighth latest SD	1 byte
15	Data of hour meter for the fourth latest SD	7 bytes	31	Data of hour meter for the eighth latest SD	7 bytes
16	Data on temperature for the fourth latest SD (TEMP1)	3 bytes	32	Data on temperature for the eighth latest SD (TEMP1)	3 bytes

#### • Details on the shutdown data

Data	Cause of Shutdown
0	No abnormality
1	IC4 (IC5401)
2	Module microcomputer IIC
3	Abnormality in RST2 (power decrease of DC-DC converter)
4	Panel having abnormally high temperature
5	Audio failure (short-circuiting of the speakers)
6 - F	Spares

#### • Data on the shutdown subcategories for the module microcomputer IIC

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (4k) (IC5206)
2	EEPROM (2k) (IC4002)
3	Volume IC (IC3502)

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Order	Data	Size	Order	Data	Size
1	Latest NG data	1 byte	17	Fifth latest NG data	1 byte
2	Data of subcategory for the latest NG	1 byte	18	Data of subcategory for the fifth latest NG	1 byte
3	Data of MR hour meter for the latest NG	7 bytes	19	Data of MR hour meter for the fifth latest NG	7 bytes
4	Data on temperature for the latest NG (TEMP2)	3 bytes	20	Data on temperature for the fifth latest NG (TEMP2)	3 bytes
5	Second latest NG data	1 byte	21	Sixth latest NG data	1 byte
6	Data of subcategory for the second latest NG	1 byte	22	Data of subcategory for the sixth latest NG	1 byte
7	Data of MR hour meter for the second latest NG	7 bytes	23	Data of MR hour meter for the sixth latest NG	7 bytes
8	Data on temperature for the second latest NG (TEMP2)	3 bytes	24	Data on temperature for the sixth latest NG (TEMP2)	3 bytes
9	Third latest NG data	1 byte	25	Seventh latest NG data	1 byte
10	Data of subcategory for the third latest NG	1 byte	26	Data of subcategory for the seventh latest NG	1 byte
11	Data of MR hour meter for the third latest NG	7 bytes	27	Data of MR hour meter for the seventh latest NG	7 bytes
12	Data on temperature for the third latest NG (TEMP2)	3 bytes	28	Data on temperature for the seventh latest NG (TEMP2)	3 bytes
13	Fourth latest NG data	1 byte	29	Eighth latest NG data	1 byte
14	Data of subcategory for the fourth latest NG	1 byte	30	Data of subcategory for the eighth latest NG	1 byte
15	Data of MR hour meter for the fourth latest NG	7 bytes	31	Data of MR hour meter for the eighth latest NG	7 bytes
16	Data on temperature for the fourth latest NG (TEMP2)	3 bytes	32	Data on temperature for the eighth latest NG (TEMP2)	3 bytes

#### • Details on the NG data

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Data	Cause of Shutdown			
0	No abnormality			
1	Power-down of the MR power supply			
2	Communication failure of the module microcomputer			
3	Three-wire serial communication failure of the main microcomputer			
4	IIC communication failure of the main microcomputer			
5	Communication failure of the main microcomputer			
6	MR having abnormally high temperature			
7	Fan stopped			
8	Failure of the UART communication			
9	Abnormality in RST2 of the MR (power decrease of DC-DC converter)			

# • Data on the subcategories for failure in 3-wire serial communication of the main microcomputer

Data	Cause of Shutdown
0	No subcategory
1	Communication failure of the IF microcomputer
2	IC2 communication failure
3	IC3 communication failure

#### • Data on the subcategories for failure in the digital tuner

Data	Cause of Shutdown			
0	No subcategory (DTV for North America)			
1	Communication failure of the DTV microcomputer (PS/RST)			
2	DTV NG (DEVICE)			
3	DTV microcomputer (CMD)			
4	DTV microcomputer communication (RETRY)			
5	PC CARD Communication NG (CD-COM)			
6	PC CARD Mdule (CD-DEV)			
7	PC CARD Reset NG (CD-RST)			

## Data on the subcategories for failure in IIC communication of the main microcomputer

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (128k) (IC7205)
2	GCR (Only domestic model)
3	IC1 main (IC6107)
4	IC1 sub (IC6255)
5	AD-PLL main (IC6402)
6	AD-PLL sub (IC6602)
7	IC6 (IC6951)
8	HDMI1(IC6801)
9	HDMI2(IC6881)
Α	7-3VIDEO SW (IC8002)
В	6-2RGB SW (IC8005)
С	Front end 1 (U7501)
D	Front end 2 (U7502)
Е	CC UCOM (IC8903)
F	PANEL LINK TX (IC7401)
G	PANEL LINK RX
Н	Not used
I	Not used
K	AV-EEP ROM

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#### GAJ: Returning drive-related adjustment values of the PDP

Order	Data	Size
1	Currently used ABL table	3 bytes
2	Upper limit of the electric power	3 bytes
3	Vsus adjustment value	3 bytes
4	Vofs adjustment value	3 bytes
5	X-SUS-U1 adjustment value (XU1)	3 bytes
6	X-SUS-U2 adjustment value (XU2)	3 bytes
7	X-SUS-D2 adjustment value (XD2)	3 bytes
8	X-SUS-D1 adjustment value (XD1)	3 bytes
9	Y-SUS-U1 adjustment value (YU1)	3 bytes
10	Y-SUS-U2 adjustment value (YU2)	3 bytes
11	Y-SUS-D1-2 adjustment value (YD2)	3 bytes
12	Y-SUS-D1-1 adjustment value (YD1)	3 bytes
13	Y-SUS-D2-2 adjustment value (YD4)	3 bytes
14	Y-SUS-D2-1 adjustment value (YD3)	3 bytes

Data	Table
AB1	ABL table for NTSC
AB2	ABL table for PAL
AB3	ABL table for PC

#### GPW: Returning RGB-level-related adjustment values of the PDP

Order	Data	Size
1	Panel W/B table currently used	3 bytes
2	Main contrast	4 bytes
3	Red contrast of the W/B adjustment value	4 bytes
4	Green contrast of the W/B adjustment value	4 bytes
5	Blue contrast of the W/B adjustment value	4 bytes
6	Main brightness	4 bytes
7	Red brightness of the W/B adjustment value	4 bytes
8	Green brightness of the W/B adjustment value	4 bytes
9	Blue brightness of the W/B adjustment value	4 bytes

Data	Table
PT1	ABL table for NTSC
PT2	ABL table for PAL
PT3	Reserved table

#### **GS6:** Returning information of the Flash Device

Order	Data	Size
1	Display Information	3 bytes
2	Version of the CCD UCOM	4 bytes
3	Version of the DTV Software	4 bytes
4	Version of the DTV Hardtware	2 bytes
5	Version of the DTV Hardtware Serial	6bytes
6	Not Used (Reserve)	56 bytes
7	User Password	4 bytes

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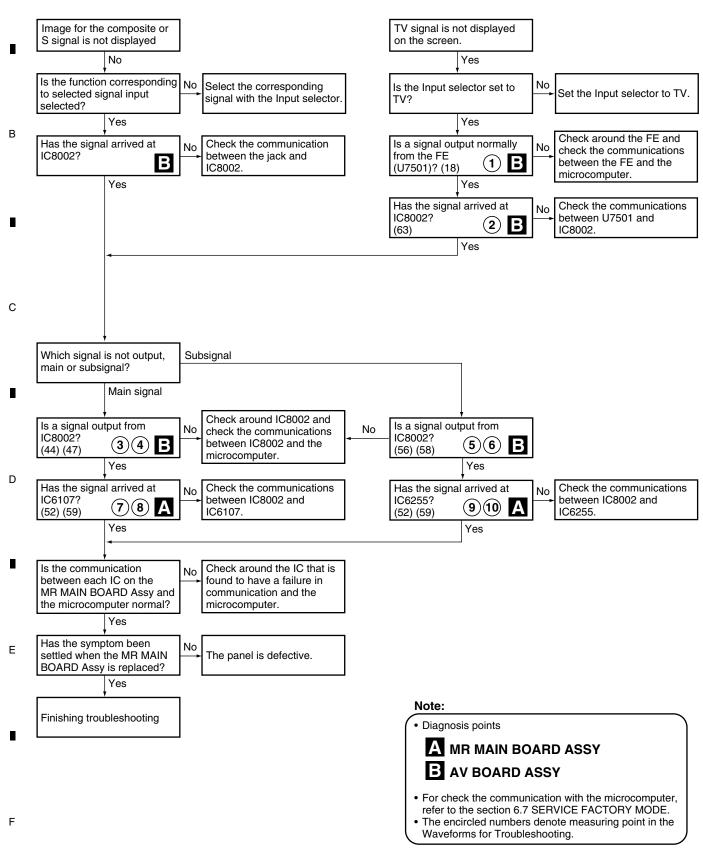
# 7. GENERAL INFORMATION

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#### 7.1 DIAGNOSIS

#### 7.1.1 TROUBLESHOOTING

#### Image for the composite or S signal is not displayed



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Image for the component or RGB signals is not displayed No Is the function corresponding No Select the corresponding to selected signal input signal with the Input selector. selected? Yes Has the signal arrived at Check the communication No IC8005? between the jack and В В IC8005. Yes Which signal is not output, Subsignal main or subsignal? Main signal Is a signal output from Is a signal output from Check around IC8005 and IC8005? No No IC8005? check the communications (35), (36), (38), (Pr, Pb, Y) (43), (44), (46), (Pr, Pb, Y) between IC8005 and the С microcomputer. (19)(20)(21) B (16)(17)(18) B Yes Yes Has the signal arrived at Has the signal arrived at Check the communications Check the communications IC6401? No IC6601? No between IC8005 and (7), (27), (3), (Y, Pb, Pr) (7), (27), (3), (Y, Pb, Pr) between IC8005 and IC6401. IC6601. (22)(23)(24) A 25)26)27) A Yes Yes Has the signal arrived at Has the signal arrived at Check the communications Check the communications No IC6402? IC6602? No between IC6401 and between IC8005 and D TP6402, 6403, 6404 TP6604, 6605, 6606 IC6402. IC6601. 28 29 30 A (31)(32)(33) A Yes Yes Is the communication Check around the IC that is No between each IC on the found to have a failure in MR MAIN BOARD Assy and communication and the the microcomputer normal? microcomputer. Has the symptom been No Ε settled when the MR MAIN The panel is defective. BOARD Assy is replaced? Yes Finishing troubleshooting

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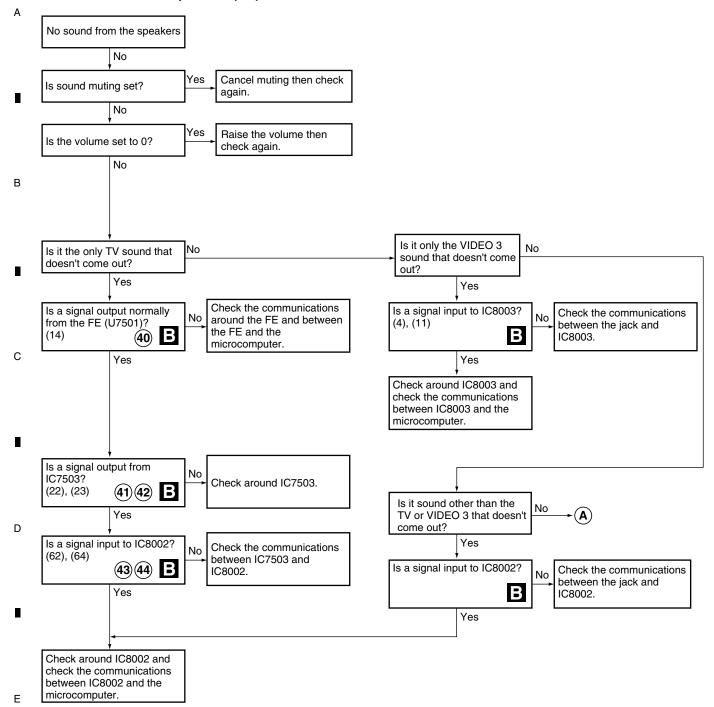
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#### • No sound from the speakers (1/2)



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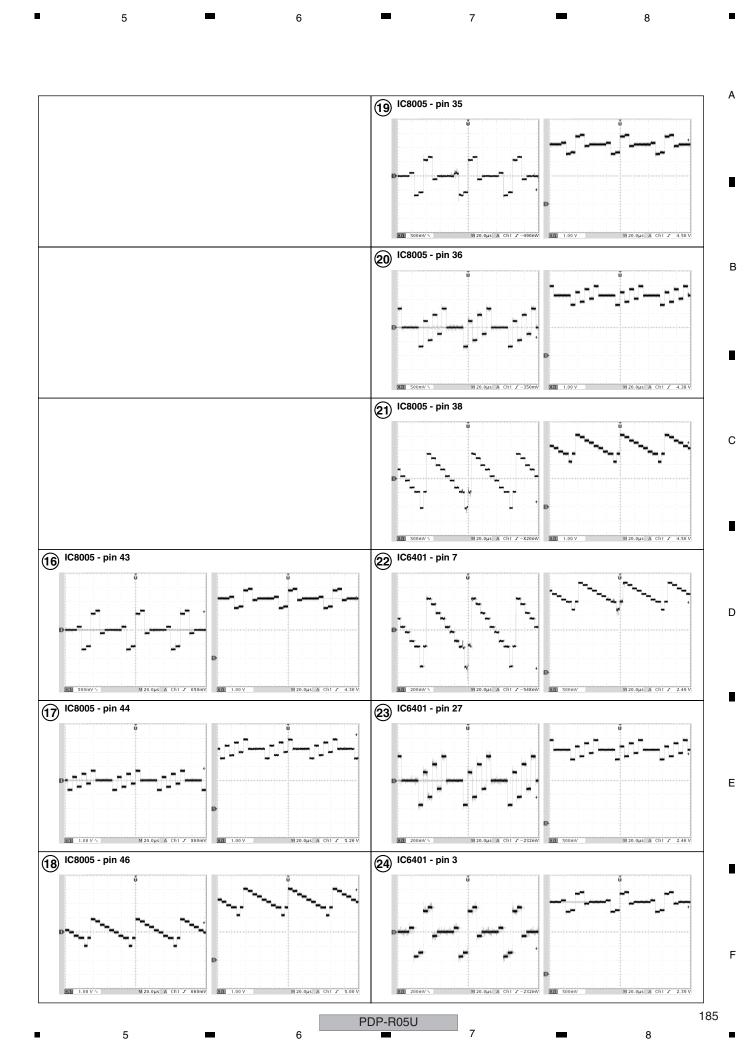
С

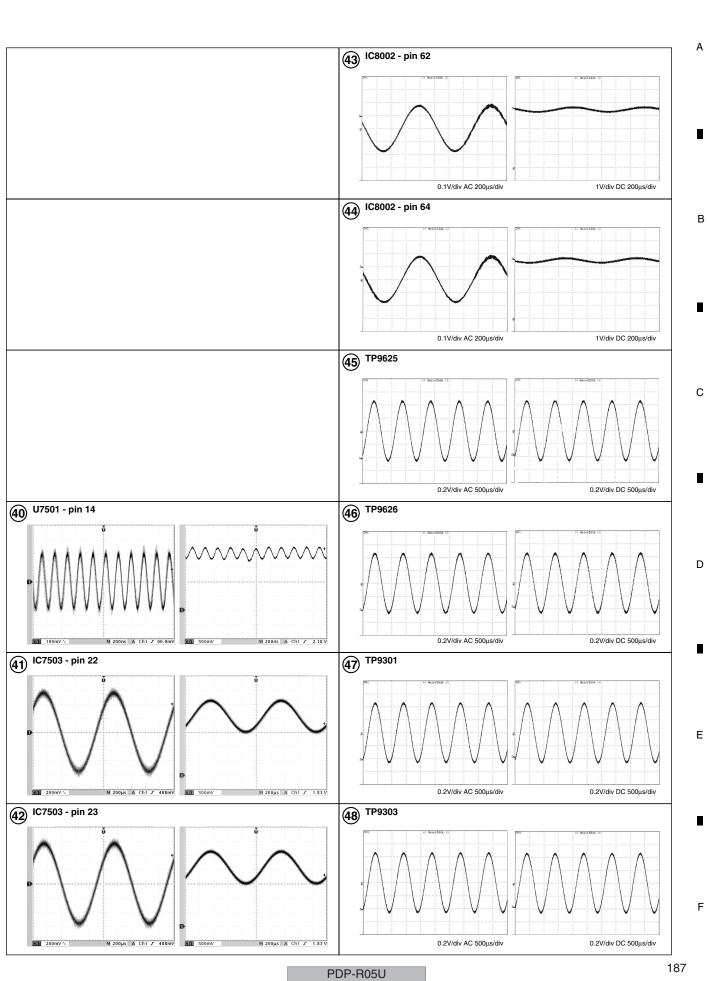
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7.1.2 DISASSEMBLY

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

# 1 Bonnet top and metal bonnet bottom

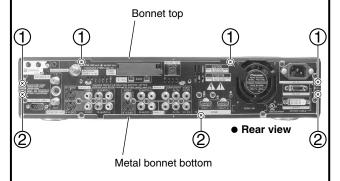
- 1 Remove the bonnet top by removing the eight screws.
- (2) Remove the metal bonnet bottom by removing the five screws.

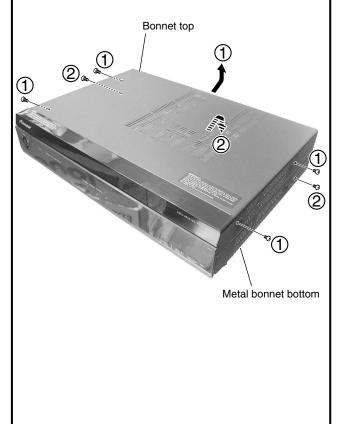
#### Caution:

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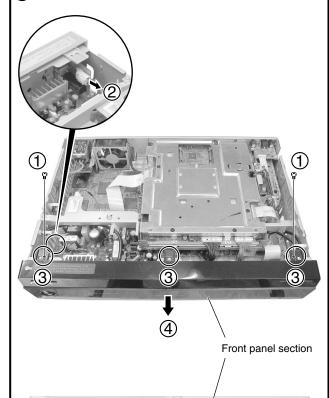
Please remove it after pulling it in a rear direction because bonnet top and metal bonnet bottom are hard to reduce.





## 2 Front panel section

- (1) Remove the two screws.
- (2) Disconnect the one connector.
- (3) Unhook the six hooks.
- (4) Remove the front panel section.



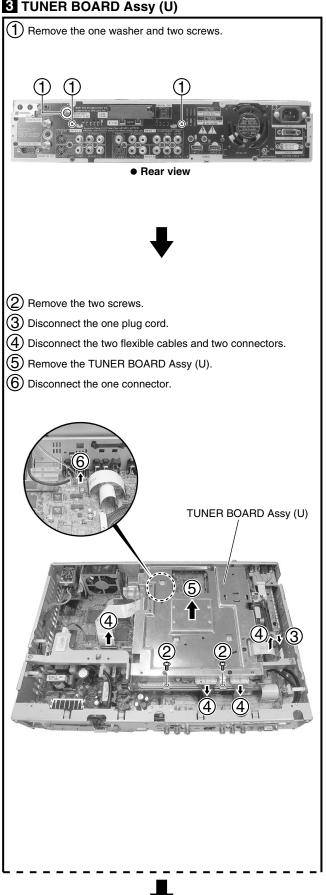
Bottom view

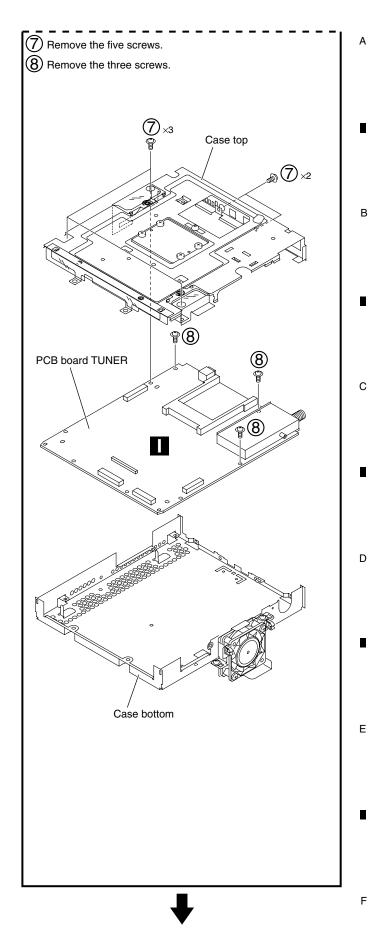


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3 TUNER BOARD Assy (U)





PCB Location MDR Assy В A MR MAIN BOARD Assy B AV BOARD Assy K POWER SUPPLY Unit SR Assy LED Assy J SW Assy G FRONT Assy Ε

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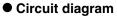
190

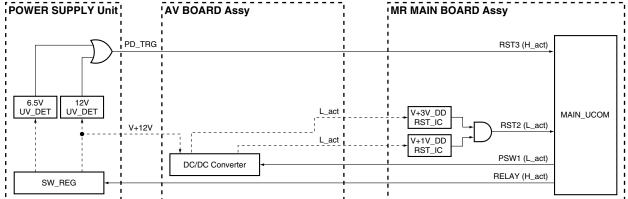
PDP-R05U

# 7.2 EXPLANATION

## 7.2.1 PROCESSING IN ABNORMALITY

# Power supply and DC-DC converter



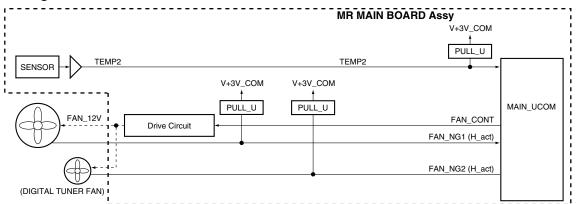


## Specifications for port monitoring

Port Name	SD/PD Indication	<b>Assigned Pin</b>	Active
PD_MAIN (PD_TRG)	MR_PWR	41	Power-down with H
RST2	ASIC power supply	98	Shutdown with L

# Fan and temperature sensor

## Circuit diagram



## Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
FAN_NG 1	FAN	31	Shutdown with H
FAN_NG 2	FAN	32	Shutdown with H
TEMP2	Abnormally high temperature in the MR	50	Shutdown when the value exceeds the predetermined value

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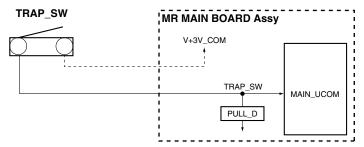
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1 2 = 3 = 4

# TRAP\_SW

# Circuit diagram



# ● Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
TRAP_SW	Modification tried	30	OFF with L

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\* In this case, the red and green areas on the screen of the panel flash alternately.

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■ LED-lighting patterns

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No. o	No. of times of LED flashing LEDs on the panel LEDs on the MR	TED 11a	shing the MR	Category	Site detected as	Possible defective points (representative examples)	OSD when detected
RED	GRN	RED	GRN	*	derective		(waiiiiig iilessage)
	Green 1	Red			Panel drive IC	Z*	None
	Green 2	Red			Module section IIC		None
	Green 3	Red			Power decrease of DIGITAL-DC-DC	*2	None
	Green 4	Red			Panel having abnormally high temperature	7*	The power is shut down, because the internal temperature has risen. Check the temperature surrounding the PDP. (SD04)
	Green 5	Red			Short-circuiting of the speakers	*5	The power is shut down, because the protection circuit inside the unit is activated. Check if the speaker cables are short-circuited. (SD05)
Red			Green 6		Module microcomputer	Disconnection of the system cable Desconnection of the system cable DP-434PU or Defective module microcomputer or its peripheral circuits of the panel (Refer to the service manual of the PDP-434PU or PDF-504PU.) Defective main microcomputer (IC7207) Failure in communication (TXD_MD, RXD_MD, REQ_MD) between the panel's module microcomputer and IC7207 (main microcomputer)	None
Red			Green 7		3-wire serial connection of the main section	Defective IC7004 or its peripheral circuits Failure in communication (TXD_IC, XD_IC2, CLK_IC2, IC2_CK, IC2_EMG) between IC7004 and IC7207 (main microcomputer) Defective IC7101 or its peripheral circuits Failure in communication (TXD_IC3, RXD_IC3, CLK_IC3, IC3_CK, IC3_REQ, IC3_BUSY) between IC7101 and IC7207 (main microcomputer)	None
Red			Green 8	S	IIC of the main section	Defective ICR5107 (CD_SUB) or its peripheral circuits Defective ICR55 (CD_SUB) or its peripheral circuits Defective ICR562 (AD_MAIN) or its peripheral circuits Defective ICR602 (AD_MAIN) or its peripheral circuits Defective ICR503 (IBUS_SW) or its peripheral circuits Defective ICR503 (IBUS_SW) or its peripheral circuits Defective ICR503 (IU) or its peripheral circuits Defective ICR503 (IU) or its peripheral circuits Defective ICR503 (IV) or its peripheral circuits Defective ICR504 (IV) or its peripheral circuits Defective ICR505 (ICR) or its peripheral circuits Defective ICR505 (ICR) or its peripheral circuits Defective ICR505 (ICR) or its peripheral circuits Defective ICR505 (ICR503 or its peripheral circuits Defective ICR505 (ICR503 or its peripheral circuits) Defective ICR505	None
Red			Green 9		Main microcomputer	Defective IC7207 (main microcomputer) Defective IC7207 (main microcomputer) Defective flexible cable for communication between the MR MAIN BOARD Assy and the AV BOARD Assy Failure in communication (TXD_IF, RXD_IF, GLK_IF, IF_CE, IF_BUSY) between IC7207 (main microcomputer) and IC8702	None
Red			Green 10		Fan	Failure in the fan motor, or the fan stopped because of dust attached to the fan	None The nower is shift down because the internal
Red			Green 11		MH or unit naving abnormally high temperature	The Media Receiver or the unit being used at high temperature	temperature has risen. Check the temperature surrounding the Media Receiver. (SD11)
Red			Green 12		Digital tuner (U.S. model)	Defective DTV tuner Failure in communication (TXD_DT, RXD_DT) between the digital tuner and IC8202 (main microcomputer)	None
Red			Green 13		ASIC power supply (DC-DC)	ASIC power supply (DC-DC)   Defective U8502 (DD_CON) or short-circuiting elsewhere	None
Red			Green 14		IF_E2P	/e IC8705 (IF_E2P) or its peripheral circuits	None
Red		Red 1			MR PWR	ective Power Supply Assy of the Media Receiver, or power short-circuiting in another Assy	None
Red 2		Red			POWER		None
E Ped 3		per de			SCAN SCAN		None
Bed 5		Bed			Y-DRIVE	Z: C*	NON PORT
Red 6		Red			Y-DCDC		None
Red 7		Red		3	Y-SUS	*2 *1: Shutdown (SD) is a protective operation controlled by the	None
Red 8		Red			ADRS	microcomputer, and you can turn on the unit again using the remote	None
Red 9		Red			X-DRIVE	control unit. Power-down (PD) is a protective operation activated by	None
Red 10		Red			X-DCDC	*E the circuitry and can be reset after AC power is off for about 1 minute.	None
Red 12		Red			D-DCDC	*2. hele! to the service mailtain of the PDF-455PO of PDF-505PO.	None
Red 13		Red			IC4		None

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В

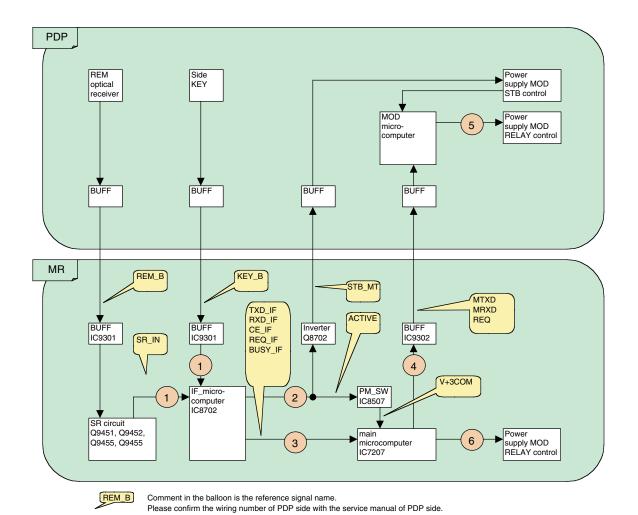
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#### R05 series Power-on sequence



- ① : Remote controller signal (or, KEY signal) is input into IF microcomputer.
- ②: IF microcomputer supplies the power supply to Main microcomputer and MOD microcomputer.
- ③: IF microcomputer communicates the operation information of Remote controller (or KEY) to Main microcomputer.
- ④: Main microcomputer sends in the activation order to MOD microcomputer.
- ⑤: MOD microcomputer controls the relay of PDP power supply MOD, and activate the power supply of PDP side.
- ⑥: Main microcomputer controls the relay of MR power supply MOD, and activate the power supply of MR side.

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# 7.3 PARTS 7.3.1 IC

A ¥ The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

#### List of IC

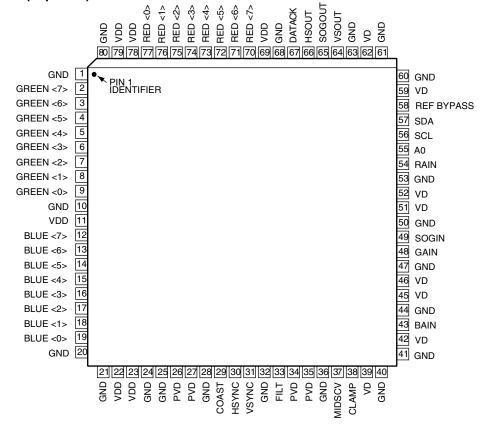
AD80058-K, SM5301BS, BA7078AF, SII9993CTG100, HY57V643220CT-7 (or K4S643232H-TC60-K), MBM29PL3200BE70PFV, SII170BCLG64, HY57V161610DTC-8 (or K4S161622H-TC60-K), TA1287FG, AXY1088, AXY1089, CXA2069Q

3

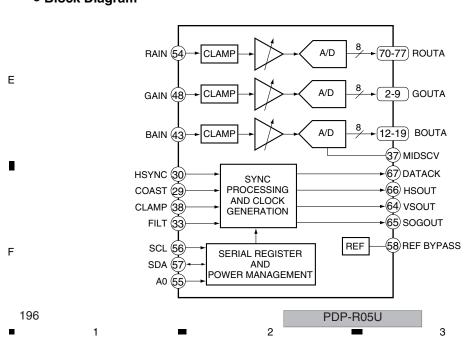
## ■ AD80058-K (MR MAIN BOARD ASSY : IC6402, IC6602)

110 MSPS Analog Interface

#### Pin Arrangement (Top view)



## Block Diagram



#### Pin Function

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1 GN 2 GR 3 GR 4 GR 5 GR 6 GR 7 GR 8 GR 9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	REEN 7 REEN 6 REEN 5 REEN 4 REEN 3 REEN 2 REEN 1 REEN 0	1/O	Ground Converter Green output (MSB) Converter Green output Converter Breen output Converter Green output Ground Power supply (3.3V) Converter Blue output (MSB) Converter Blue output Converter Blue output
2 GR 3 GR 4 GR 5 GR 6 GR 7 GR 8 GR 9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	REEN 7 REEN 6 REEN 5 REEN 4 REEN 3 REEN 2 REEN 1 REEN 0 ND DD .UE 7 .UE 6 .UE 5 .UE 4 .UE 3 .UE 2	O O O O O O O O O O O O	Converter Green output Converter Breen output Ground Power supply (3.3V) Converter Blue output (MSB) Converter Blue output Converter Blue output Converter Blue output Converter Blue output
3 GR 4 GR 5 GR 6 GR 7 GR 8 GR 9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 17 BLU	REEN 6 REEN 5 REEN 4 REEN 3 REEN 2 REEN 1 REEN 0 ND DD .UE 7 .UE 6 .UE 5 .UE 4 .UE 3	0 0 0 0 0 0 - - 0 0 0	Converter Green output Ground Power supply (3.3V) Converter Blue output (MSB) Converter Blue output Converter Blue output Converter Blue output Converter Blue output
4 GR 5 GR 6 GR 7 GR 8 GR 9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	REEN 5 REEN 4 REEN 3 REEN 2 REEN 1 REEN 0 ND DD .UE 7 .UE 6 .UE 5 .UE 4 .UE 3	0 0 0 0 0 0 - - 0 0 0	Converter Green output Ground Power supply (3.3V) Converter Blue output (MSB) Converter Blue output Converter Blue output Converter Blue output
5 GR 6 GR 7 GR 8 GR 9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	REEN 4 REEN 3 REEN 2 REEN 1 REEN 0 ND DD .UE 7 .UE 6 .UE 5 .UE 4 .UE 3 .UE 2	0 0 0 0 0 - - 0 0 0	Converter Green output Ground Power supply (3.3V) Converter Blue output (MSB) Converter Blue output Converter Blue output Converter Blue output Converter Blue output
6 GR 7 GR 8 GR 9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	REEN 3 REEN 2 REEN 1 REEN 0 ND DD .UE 7 .UE 6 .UE 5 .UE 4 .UE 3	O O O O O O O	Converter Green output  Converter Green output  Converter Green output  Converter Green output  Ground  Power supply (3.3V)  Converter Blue output (MSB)  Converter Blue output  Converter Blue output  Converter Blue output
7 GR 8 GR 9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	REEN 2 REEN 1 REEN 0 ND DD .UE 7 .UE 6 .UE 5 .UE 4 .UE 3	O O O O O O	Converter Green output Converter Green output Converter Green output Ground Power supply (3.3V) Converter Blue output (MSB) Converter Blue output Converter Blue output Converter Blue output
8 GR 9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	REEN 1 REEN 0 ND DD .UE 7 .UE 6 .UE 5 .UE 4 .UE 3 .UE 2	0 0 - - 0 0 0	Converter Green output  Converter Green output  Ground  Power supply (3.3V)  Converter Blue output (MSB)  Converter Blue output  Converter Blue output  Converter Blue output
9 GR 10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	REEN 0  ND  DD  .UE 7  .UE 6  .UE 5  .UE 4  .UE 3	O O O O O	Converter Green output  Ground  Power supply (3.3V)  Converter Blue output (MSB)  Converter Blue output  Converter Blue output  Converter Blue output
10 GN 11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	ND DD .UE 7 .UE 6 .UE 5 .UE 4 .UE 3	- 0 0 0 0	Ground Power supply (3.3V) Converter Blue output (MSB) Converter Blue output Converter Blue output Converter Blue output
11 VD 12 BLU 13 BLU 14 BLU 15 BLU 16 BLU	DDUE 7UE 6UE 5UE 4UE 3UE 2	- 0 0 0 0	Power supply (3.3V)  Converter Blue output (MSB)  Converter Blue output  Converter Blue output  Converter Blue output
12 BLU 13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	.UE 7 .UE 6 .UE 5 .UE 4 .UE 3	0 0 0 0	Converter Blue output (MSB)  Converter Blue output  Converter Blue output  Converter Blue output
13 BLU 14 BLU 15 BLU 16 BLU 17 BLU	.UE 6 .UE 5 .UE 4 .UE 3	0 0 0	Converter Blue output Converter Blue output Converter Blue output
14 BLU 15 BLU 16 BLU 17 BLU	.UE 5 .UE 4 .UE 3 .UE 2	0 0	Converter Blue output Converter Blue output
15 BLU 16 BLU 17 BLU	LUE 4 LUE 3 LUE 2	0	Converter Blue output
16 BLU	LUE 3	0	
17 BLU	UE 2		
		_	Converter Blue output
18 BLU	UE 1	0	Converter Blue output
		0	Converter Blue output
19 BLI	UE 0	0	Converter Blue output
20 GN	ND	-	Ground
21 GN	ND	_	Ground
22 VD	DD	-	Power supply (3.3V)
23 VD	DD	_	Power supply (3.3V)
24 GN	ND	_	Ground
25 GN	ND	_	Ground
26 PVI	/D	_	PLL power supply (3.3V)
27 PVI	/D	_	PLL power supply (3.3V)
28 GN	ND	_	Ground
29 CO	DAST	I	PLL COAST signal input
30 HS	SYNC	I	Horizontal sync. input
31 VS	SYNC	I	Vertical sync. input
32 GN	ND	_	Ground
33 FIL	LT	_	External filter connection pin for built-in PLL
34 PVI	/D	_	PLL power supply (3.3V)
35 PVI	/D	_	PLL power supply (3.3V)
36 GN	ND	_	Ground
37 MIE	DSCV	_	Internal middle scale voltage bias
38 CL/	_AMP	I	Clamp input (External clamp signal)
39 VD	)	_	Analog power supply (3.3V)
40 GN	ND	_	Ground
41 GN	ND	_	Ground
42 VD	)	_	Analog power supply (3.3V)
43 BAI	AIN	I	Analog input for converter B
44 GN	ND	_	Ground
45 VD	)	_	Analog power supply (3.3V)

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**Pin Name** I/O **Pin Function** No. 46 VD \_ Analog power supply (3.3V) 47 GND Ground Analog input for converter G 48 **GAIN** Τ SOGIN Input for Sync-on Green 49 1 50 **GND** Ground ۷D Analog power supply (3.3V) 52 VD \_ Analog power supply (3.3V) **GND** RAIN Τ 54 Analog input for converter R Α0 55 1 Address input 1 of serial port SCL Data clock (max. 100kHz) of serial port 57 SDA I/O Data input/output of serial port **REF BYPASS** Internal reference bypass ۷D Analog power supply (3.3V) 60 **GND** \_ Ground 61 **GND** Ground Analog power supply (3.3V) 62 VD 63 **GND** VSOUT 0 VSYNC output (phasing with DATACLK) 65 SOGOUT 0 Sync-on-Green slicer output 0 66 **HSOUT** HSYNC output (phasing with DATACLK) DATACLK 0 Data input/output clock GND 68 Ground \_ 69 VDD Power supply (3.3V) RED 7 0 Converter Red output (MSB) 71 RED 6 0 Converter Red output RED 5 0 Converter Red output 73 RED 4 0 Converter Red output 74 RED 3 0 Converter Red output 0 RED 2 Converter Red output RED 1 0 Converter Red output 76 RED 0 0 77 Converter Red output 78 VDD Power supply (3.3V) 79 VDD Power supply (3.3V) 80 GND Ground

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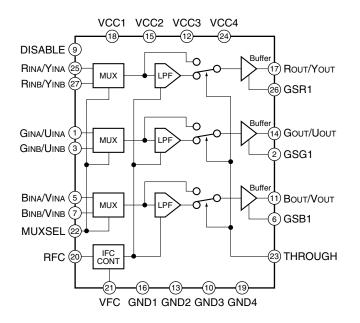
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# ■ SM5301BS (MR MAIN BOARD ASSY : IC6401, IC6601)

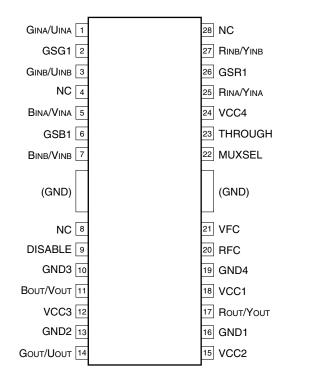
Video Filter

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## Block Diagram



## Pin Arrangement (Top view)



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## • Pin Function

Α	No.	Pin Name	I/O	Pin Function	
	1	Gina/Uina	ı	Analog GINA or UINA signal input. Sync signal is input on SYNCIN pin.	
	2	GSG1	ı	GOUT/UOUT output buffer gain set input	
	3	GINB/UINB	ı	Analog GINB or UINB signal input. Sync signal is input on SYNCIN pin.	
_	4	(NC)	_	No connection	
	5	BINA/VINA	ı	Analog BINA or VINA signal input. Sync signal is input on SYNCIN pin.	
	6	GSB1	ı	BOUT/VOUT output buffer gain set input	
В	7	BINB/VINB	ı	Analog BINB or VINB signal input. Sync signal is input on SYNCIN pin.	
	8	(NC)	_	No connection	
•	9	DISABLE	I	Power save function. Built-in pull-down resistor. L: Enable H: Disable (Output pins: ROUT/YOUT, GOUT/UOUT, and BOUT/VOUT are high impedance.)	
	10				
	11	Воит/Vоит	0	B/V signal output	
	12	VCC3	_	Analog 5V supply	
С	13	GND2	_	Analog ground	
	14	Gouт/Uouт	0	G/U signal output	
	15	VCC2	_	Analog 5V supply	
	16	GND1	_	Analog ground	
	17	Rоит/Yоит	0	R/Y signal output	
•	18	VCC1	_	Analog 5V supply	
	19	GND4	_	Analog ground	
	20	RFC	_	LPF (lowpass filter) cutoff frequency setting resistor connection	
	21	VFC	I	LPF (lowpass filter) cutoff frequency setting voltage input	
D	22	MUXSEL	ı	Input select signal. Built-in pull-down resistor. L: XINA pin select H: XINB pin select	
	23	THROUGH	I	Filter through Built-in pull-down resistor. L: Filter function H: Filter through (buffer only)	
	24	VCC4	_	Analog 5V supply	
	25	RINA/YINA	ı	Analog RINA or YINA signal input. Sync signal is input on SYNCIN pin.	
Е	26	GSR1	I	ROUT/YOUT output buffer gain set input	
_	27	RINB/YINB	ı	Analog RINB or YINB signal input. Sync signal is input on SYNCIN pin.	
	28	(NC)	_	No connection	

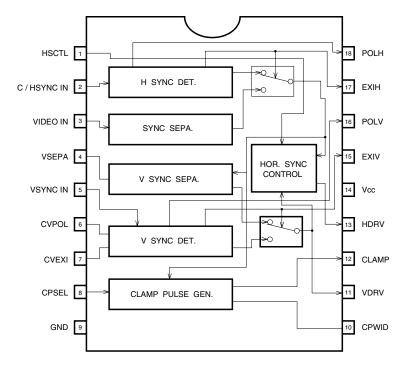
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# Block Diagram



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# • Pin Function

А	No.	Pin Name	Pin Function
	1	HSCTL	HDRV output Used to select whether to output the VDRV section of the HDRV output signal. High: VDRV section of HDRV is output Low: VDRV section of HDRV is not output
•	2	C/HSYNC IN	Composite sync / H SYNC input Input either the composite synchronization signal or the horizontal synchronization signal. Input is clamped, and is initiated by capacitor coupling.
	3	VIDEO IN	SYNC ON VIDEO input Inputs the SYNC ON VIDEO signal(green). Input is sink chip clamped. Input is initiated by capacitor coupling.
В	4	VSEPA	f-V conversion Converts the horizontal synchronization signal frequency into a voltage. The voltage generated is proportional to the frequency of the horizontal synchronization signal. Attach a 0.56 μF capacitor between the ground pins.
	5	VSYNC IN	V SYNC input Inputs the vertical synchronization signal.
•	6	CVPOL	Vertical polarity integration Integrates the vertical synchronization signal polarity detection circuit. Attach a 1.5 $\mu$ F capacitor between this pin and the ground.
	7	CVEXI	Vertical existence integration Integrates the vertical synchronization signal existence detection circuit. Attach a 1 $\mu$ F capacitor between this pin and the ground.
С	8	CPSEL	Setting the clamp position Used to set the clamp pulse generation position to either the front or back edge of HSYNC High: The front edge is the generation position Open: Composite / H SYNC IN: The front edge is the generation position VIDEO IN: The back edge is the generation position Low: The back edge is the generation position
	9	GND	Ground
-	10	CPWID	Setting the clamp pulse width Sets the clamp pulse width according to the attached time constant. Attach a resistor between this pin and VCC and, a capacitor between this pin and GND. When $R=3.9k\Omega$ and $C=100pF$ , pulse width is approximately 400 ns. Set the resistor to register an abnormality at $1k\Omega$ .
D	11	VDRV	VDRV output Outputs the vertical synchronization signal. The output signal has positive polarity.
	12	CLAMP	Clamp output Outputs the clamp pulse generated from the vertical synchronization signal. The output signal has a positive polarity.
	13	HDRV	HDRV output Outputs the clamp pulse generated from the horizontal synchronization signal. The output signal has positive polarity.
	14	Vcc	Power supply
	15	EXIV	Vertical existence output Indecates whether the vertical synchronization signal exists.
E	16	POLV	Vertical polarity output Indicates the polarity of the vertical synchronization signal.
	17	EXIH	Horizontal existence output Indicates whether the horizontal synchronization signal exists.
	18	POLH	Horizontal polarity output Indicates the polarity of the horizontal synchronization signal.

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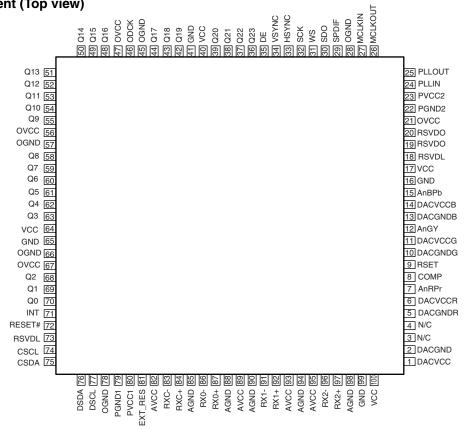
# ■ SII9993CTG100 (MR MAIN BOARD ASSY : IC6881, IC6801)

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• HDCP Panel Link Receiver

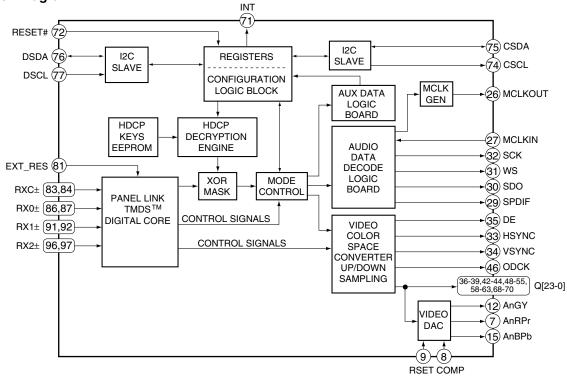
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Pin Arrangement (Top view)



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Block Diagram



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	Function				T		
No.	Pin Name	1/0	Pin Function	No.	Pin Name	1/0	Pin Function
1	DACVCC	_	DAC power supply (3.3V)	51	Q13	0	24-bit output pixel data bus
2	DACGND	_	DAC ground	52	Q12	0	24-bit output pixel data bus
3	N/C	_	No connection	53	Q11	0	24-bit output pixel data bus
4	N/C	_	No connection	54	Q10	0	24-bit output pixel data bus
5	DACGNDR	-	DAC Red ground	55	Q9	0	24-bit output pixel data bus
6	DACVCCR	_	DAC Red power supply (3.3V)	56	ovcc	_	Output bus power supply (3.3V)
7	AnRPr	0	Red, Pr output of analog video	57	OGND	_	Output bus ground
8	COMP	I	For reference amp. correction of DAC inside	58	Q8	0	24-bit output pixel data bus
9	RSET	I	Full scale adjustment resistor input	59	Q7	0	24-bit output pixel data bus
10	DACGNDG	_	DAC Green ground	60	Q6	0	24-bit output pixel data bus
11	DACVCCG	_	DAC Green power supply (3.3V)	61	Q5	0	24-bit output pixel data bus
12	AnGY	0	Green, Y output of analog video	62	Q4	0	24-bit output pixel data bus
13	DACGNDB	_	DAC Blue ground	63	Q3	0	24-bit output pixel data bus
14	DACVCCB	_	DAC Blue power supply (3.3V)	64	VCC	_	Digital power supply (3.3V)
15	AnBPb	0	Blue, Pb output of analog video	65	GND	_	Digital ground
16	GND	_	Digital ground	66	OGND	_	Output bus ground
17	VCC	_	Digital power supply (3.3V)	67	ovcc	_	Output bus power supply (3.3V)
18	RSVDL	ı	Reserved Fixed to low.	68	Q2	0	24-bit output pixel data bus
19	RSVDD	0	Reserved No connection	69	Q1	0	24-bit output pixel data bus
20	RSVDD	0	Reserved No connection	70	Q0	0	24-bit output pixel data bus
21	ovcc	_	Output bus power supply (3.3V)	71	INT	0	Interruption output
22	PGND2	_	Audio PLL ground	72	RESET#	ı	Reset Activ low.
23	PVCC2	_	Audio PLL power supply (3.3V)	73	RSVDL	ı	Reserved Fixed to low.
24	PLLIN	I/O	PLL filter input	74	CSCL	ı	Configuration I2C clock
25	PLLOUT	I/O	PLL filter output	75	CSDA	I/O	Configuration I2C data
26	MCCLKOUT	0	Audio master clock output	76	DSDA	I/O	DDC I2C data
27	MCCLKIN	ı	Reference audio master clock input	77	DSCL	ı	DDC I2C clock
28	OGND	_	Output bus ground	78	OGND	_	Output bus ground
29	SPDIF	0	SPDIF audio output	79	PGND1	_	PLL ground
30	SDO	0	I2S serial data output	80	PVCC1	_	PLL power supply (3.3V)
31	ws	0	I2S word selecting output	81	EXT_RES	ı	Input impedance adjustment
32	SCK	0	I2S serial clock output	82	AVCC	_	Analog power supply (3.3V)
33	HSYNC	0	Horizontal sync. control signal output	83	RXC-	ı	TMDS data input
34	VSYNC	0	Vertical sync. control signal output	84	RXC+	ı	TMDS data input
35	DE	0	Data enable	85	AGND	_	Analog ground
36	Q23	0	24-bit output pixel data bus	86	RX0-	ı	TMDS data input
37	Q22	0	24-bit output pixel data bus	87	RX0+	ı	TMDS data input
38	Q21	0	24-bit output pixel data bus	88	AGND	_	Analog ground
39	Q20	0	24-bit output pixel data bus	89	AVCC	_	Analog power supply (3.3V)
40	VCC	_	Digital power supply (3.3V)	90	AGND	_	Analog ground
41	GND	_	Digital ground	91	RX1-	ı	TMDS data input
42	Q19	0	24-bit output pixel data bus	92	RX1+	i	TMDS data input
43	Q18	0	24-bit output pixel data bus	93	AVCC	_	Analog power supply (3.3V)
44	Q17	0	24-bit output pixel data bus	94	AGND	_	Analog ground
45	OGND	_	Output bus ground	95	AVCC	_	Analog ground Analog power supply (3.3V)
45 46	ODCK	0	Data clock output			_ 	TMDS data input
				96	RX2-		
47	OVCC	-	Output bus power supply (3.3V)	97	RX2+	I	TMDS data input
48	Q16	0	24-bit output pixel data bus	98	AGND	_	Analog ground
49	Q15	0	24-bit output pixel data bus	99	GND	_	Digital ground
50	Q14	0	24-bit output pixel data bus	100	VCC	_	Digital power supply (3.3V)

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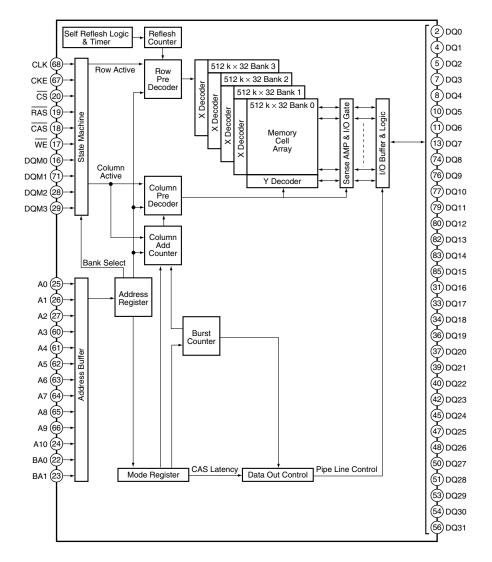
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• Synchronous DRAM

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Block Diagram



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# • Pin Function

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No.	Pin Name	I/O	Pin Function	No.	Pin Name	1/0	Pin Function
1	VDD	_	Power supply	44	VSS	_	Ground
2	DQ0	I/O	Data input/output	45	DQ24	I/O	Data input/output
3	VDDQ	_	Power supply for output buffer	46	VSSQ	_	Ground for output buffer
4	DQ1	I/O	Data input/output	47	DQ25	I/O	Data input/output
5	DQ2	I/O	Data input/output	48	DQ26	I/O	Data input/output
6	VSSQ	_	Ground for output buffer	49	VDDQ	_	Power supply for output buffer
7	DQ3	I/O	Data input/output	50	DQ27	I/O	Data input/output
8	DQ4	I/O	Data input/output	51	DQ28	I/O	Data input/output
9	VDDQ	_	Power supply for output buffer	52	VSSQ	_	Ground for output buffer
10	DQ5	I/O	Data input/output	53	DQ29	I/O	Data input/output
11	DQ6	I/O	Data input/output	54	DQ30	I/O	Data input/output
12	VSSQ	_	Ground for output buffer	55	VDDQ	_	Power supply for output buffer
13	DQ7	I/O	Data input/output	56	DQ31	I/O	Data input/output
14	NC	_	No connection	57	NC	_	No connection
15	VDD	_	Power supply	58	VSS	_	Ground
16	DQM0	ı	Data input/output mask	59	DQM3	ı	Data input/output mask
17	/WE	ı	Write enable	60	A3	ı	Address input
18	/CAS	ı	Column address strobe	61	A4	ı	Address input
19	/RAS	ı	Row address strobe	62	A5	ı	Address input
20	/CS	ı	Chip select input	63	A6	ı	Address input
21	NC	_	No connection	64	A7	ı	Address input
22	BA0	ı	Bank address input	65	A8	ı	Address input
23	BA1	ı	Bank address input	66	A9	ı	Address input
24	A10/AP	ı	Address input	67	CKE	ı	Clock enable
25	A0	ı	Address input	68	CLK	ı	System clock input
26	A1	ı	Address input	69	NC	_	No connection
27	A2	ı	Address input	70	NC	_	No connection
28	DQM2	I	Data input/output mask	71	DQM1	I	Data input/output mask
29	VDD	_	Power supply	72	VSS	_	Ground
30	NC	_	No connection	73	NC	_	No connection
31	DQ16	I/O	Data input/output	74	DQ8	I/O	Data input/output
32	VSSQ	_	Ground for output buffer	75	VDDQ	_	Power supply for output buffer
33	DQ17	I/O	Data input/output	76	DQ9	I/O	Data input/output
34	DQ18	I/O	Data input/output	77	DQ10	I/O	Data input/output
35	VDDQ	_	Power supply for output buffer	78	VSSQ	_	Ground for output buffer
36	DQ19	I/O	Data input/output	79	DQ11	I/O	Data input/output
37	DQ20	I/O	Data input/output	80	DQ12	I/O	Data input/output
38	VSSQ	-	Ground for output buffer	81	VDDQ	_	Power supply for output buffer
39	DQ21	I/O	Data input/output	82	DQ13	I/O	Data input/output
40	DQ22	I/O	Data input/output	83	DQ14	I/O	Data input/output
41	VDDQ	_	Power supply for output buffer	84	VSSQ	_	Ground for output buffer
42	DQ23	I/O	Data input/output	85	DQ15	I/O	Data input/output
43	VDD	_	Power supply	86	VSS	_	Ground

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# ■ MBM29PL3200BE70PFV (MR MAIN BOARD ASSY : IC7152)

• Page Mode Flash Memory

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Block Diagram DQ31 ~ DQ0 12, 18, 28, 58, 63, 73 Input/Output 17, 27, 33, 64, 74, 79 Erase Circuit Buffer **WE** (86) DW/W (82) Control WP (87) Circuit (Command ACC (88) Register) Write Circuit STB Chip Enable Output Enable Circuit Data Latch CE (80) OE 81 Y Decoder Y Gate STB Address Latch Low Vcc DET. Write / Erase Circuit Pulse Timer 33,554,432 X Decoder Cell Matrix A<sub>19</sub> ~ A<sub>2</sub> (57-51, 40-34) (A-1)

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#### Pin Function

No.	Pin Name	I/O	Pin Function
57-51, 40-34, 11-6, 78	A19 - A0, A-1	ı	Address input
78-75, 72-65, 62-59, 32-19, 26-19, 16-13	DQ31 - DQ0	I/O	Data input/output
80	CE	I	Chip enable
81	OE	I	Output enable
86	WE	I	Write enable
82	DW/W	I	16 bit, 32 bit mode switch
87	WP	I	Write protect
88	ACC	I	Acceleration
17, 27, 33, 64, 74, 79	Vss	_	Ground
12, 18, 28, 58, 63, 73	Vcc	T -	Power supply
1-5, 41-50, 83-85, 89, 90	N.C.	_	No connection

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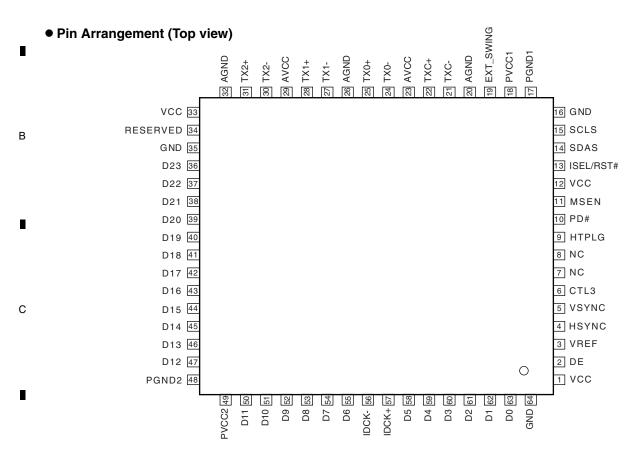
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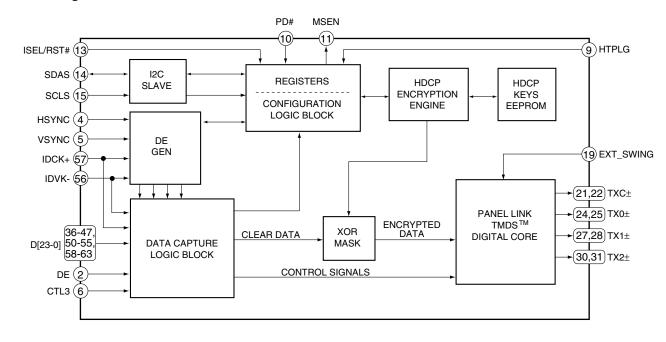
## ■ SII170BCLG64 (MR MAIN BOARD ASSY: IC7401)

HDCP Panel Link Transmitter



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#### ■ Block Diagram



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#### Pin Function

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● Pin l	Function					
No.	Pin Name	I/O	Pin Function			
1	VCC	-	Digital power supply (3.3V)			
2	DE	I	Data enable			
3	VREF	I	3.3V fixed			
4	HSYNC	I	Horizontal sync. control signal input			
5	VSYNC	I	Vertical sync. control signal input			
6	CTL3	I	External CTL3 input			
7	NC	_	No connection			
8	NC	-	No connection			
9	HTPLG	I	Monitor chrage input			
10	PD#	I	Power down input (Active low)			
11	MSEN	0	Monitor sense output (open-collector output)			
12	VCC	_	Digital power supply (3.3V)			
13	ISEL/RST#	I	I2C interface selecting input High: I2C interface is active			
14	SDAS	I/O	DDC I2C data input/output			
15	SCLS	I	DDC I2C clock input			
16	GND	_	Digital ground			
17	PGND1	-	PLL analog ground			
18	PVCC1	-	Analog power supply for PLL of primary side (3.3V)			
19	EXT_SWING	ı	Voltage regulation adjustment			
20	AGND	-	Analog ground			
21	TXC-	0	Differential signal clock output of TMDS Low voltage			
22	TXC+	0	Differential signal clock output of TMDS Low voltage			
23	AVCC	_	Analog power supply (3.3V)			
24	TX0-	0	Differential signal clock output of TMDS Low voltage			
25	TX0+	0	Differential signal clock output of TMDS Low voltage			
26	AGND	_	Analog ground			
27	TX1-	0	Differential signal clock output of TMDS Low voltage			
28	TX1+	0	Differential signal clock output of TMDS Low voltage			
29	AVCC	_	Analog power supply (3.3V)			
30	TX2-	0	Differential signal clock output of TMDS Low voltage			
31	TX2+	0	Differential signal clock output of TMDS Low voltage			
32	AGND	_	Analog ground			
33	VCC	_	Digital power supply (3.3V)			
34	RESERVED	I	Reserved pin for Silicon Image Normally, fixed to low.			
35	GND	-	Digital ground			
36	D23	ı	24-bit pixel bus input			
37	D22	I	24-bit pixel bus input			
38	D21	I	24-bit pixel bus input			
39	D20	I	24-bit pixel bus input			
40	D19	I	24-bit pixel bus input			
41	D18	ı	24-bit pixel bus input			
42	D17	ı	24-bit pixel bus input			
43	D16	ı	24-bit pixel bus input			
44	D15	I	24-bit pixel bus input			
45	D14	I	24-bit pixel bus input			
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I/O No. Pin Name **Pin Function** 46 D13 1 24-bit pixel bus input 47 D12 1 24-bit pixel bus input PGND2 PLL analog ground PVCC2 49 \_ Analog power supply for filter PLL (3.3V) D11 1 24-bit / 12-bit pixel bus input D10 1 24-bit / 12-bit pixel bus input 52 D9 1 24-bit / 12-bit pixel bus input D8 1 24-bit / 12-bit pixel bus input 54 D7 1 24-bit / 12-bit pixel bus input 55 D6 1 24-bit / 12-bit pixel bus input IDCK-Data clock - input 57 IDCK+ Ι Data clock + input D5 1 24-bit / 12-bit pixel bus input D4 1 24-bit / 12-bit pixel bus input 60 D3 1 24-bit / 12-bit pixel bus input D2 1 24-bit / 12-bit pixel bus input 62 D1 1 24-bit / 12-bit pixel bus input 63 D0 1 24-bit / 12-bit pixel bus input GND Digital ground

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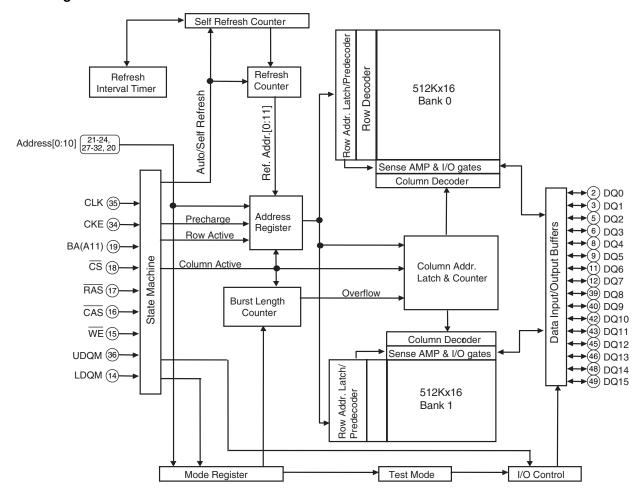
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# ■ HY57V161610DTC-8 (MR MAIN BOARD ASSY : IC6106) (or K4S161622H-TC60-K)

• 16M SDRAM

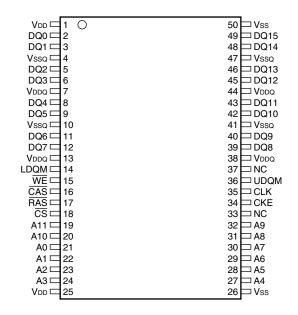
5

## Block Diagram



#### Pin Arrangement (Top view)

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## • Pin Function

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No.	Pin Name	I/O	Pin Function
1	VDD	<u> </u>	Power supply
2	DQ0	I/O	Data input/output
3	DQ1	I/O	Data input/output
4	VSSQ	_	Ground for DQ
5	DQ2	I/O	Data input/output
6	DQ3	I/O	Data input/output
7	VDDQ	_	Power supply for DQ
8	DQ4	I/O	Data input/output
9	DQ5	I/O	Data input/output
10	VSSQ	_	Ground for DQ
11	DQ6	I/O	Data input/output
12	DQ7	I/O	Data input/output
13	VDDQ		Power supply for DQ
14	LDQM	1	Data input/output mask
15	/WE	İ	Write enable
16	/CAS	<del>                                     </del>	Column address strobe
17	/RAS	T i	Row address strobe
18	/CS	i	Chip select input
19	A11	i	Address input
20	A10	† i	Address input
21	A0	† i	Address input
22	A1	<del>l i</del>	Address input
23	A2	† i	Address input
24	A3	† i	Address input
25	VDD	<u> </u>	Power supply
26	VSS	_	Ground
27	A4	ı	Address input
28	A5	<u>'</u>	Address input
29	A6	<u>'</u>	Address input
30	A7	<del>i</del>	Address input
31	A8	<del>i</del>	Address input
32	A9	† †	Address input
33	NC	<del>  '</del>	No connection
34	CKE	1	Clock enable
35	CLK	<u>'</u>	System clock input
36	UDQM	<u>'</u>	Data input/output mask
	NC	<del>  '</del>	No connection
38	VDDQ	_	Power supply for DQ
39	DQ8	I/O	Data input/output
40	DQ9	I/O	Data input/output
41	VSSQ	-	Ground for DQ
42	DQ10	I/O	Data input/output
43	DQ10 DQ11	I/O	Data input/output
44	VDDQ	-	Power supply for DQ
45	DQ12	I/O	Data input/output
_	DQ12 DQ13	1/0	Data input/output
47	VSSQ	-	Ground for DQ
48	DQ14	I/O	Data input/output
49	DQ14 DQ15	I/O	Data input/output
50	VSS	-	Ground
_ 50	1.55		

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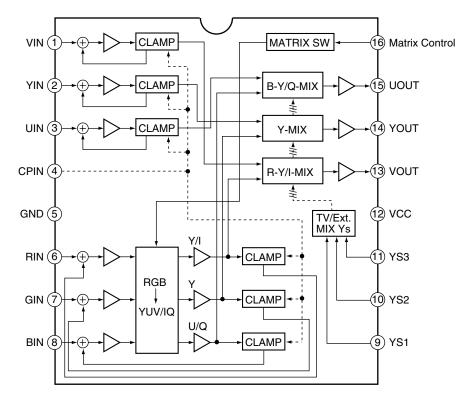
1 2 3 4

# ■ TA1287FG (AV BOARD ASSY : IC8905) • RGB to YUV/IQ High-speed Matrix IC

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# Block Diagram

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## Pin Function

No.	Pin Name	I/O	Pin Function	
1	VIN	ı	Input R-Y (V) or R signal through a clamping capacitor.	
2	YIN	ı	Input Y or G signal through a clamping capacitor.	
3	UIN	ı	Input B-Y (U) or B signal through a clamping capacitor.	
4	CPIN	ı	Input clamping pulse. Threshold: 0.75V	
5	GND	_	Ground	
6	RIN	ı	Input R or R-Y (V) signal through a clamping capacitor.	
7	GIN	ı	Input G or Y signal through a clamping capacitor.	
8	BIN	ı	Input B or B-Y (U) signal through a clamping capacitor.	
9	YS1	ı	Select to switch mixing ratio. Threshold: 0.75V	
10	YS2	ı	Select to switch mixing ratio. Threshold: 0.75V	
11	YS3	ı	Select to switch mixing ratio. Threshold: 0.75V	
12	VCC	_	Power supply 9V	
13	VOUT	0	Output R-Y (V) or R signal.	
14	YOUT	0	Output Y or G signal.	
15	UOUT	0	Output B-Y (U) or B signal.	
16	Matrix Control	ı	This pin's voltage control the matrix coefficient for output signals. Selects the output mode.	

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# ■ AXY1088 (AV BOARD ASSY : U8502, U8503)

• DC-DC Converter Unit

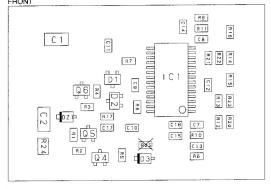
1

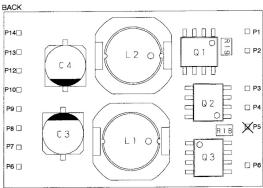
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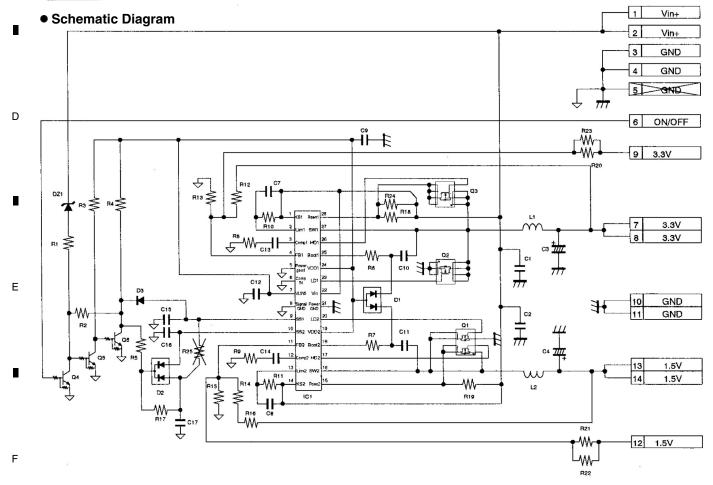
## • Pin Arrangement (Top view)





#### Pin Function

No.	Pin Name	Pin Function
1	Vin	12V input
2	Vin	12V input
3	GND	Input side GND
4	GND	Input side GND
5	Omission terminal	Omission terminal
6	ON/OFF	Output ON/OFF
7	Vo1	3.3V output
8	Vo1	3.3V output
9	Vo1adj	3.3V variable output
10	GND	GND
11	GND	GND
12	Vo2adj	1.5V variable output
13	Vo2	1.5V output
14	Vo2	1.5V output



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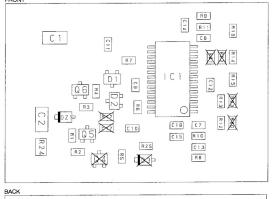
## ■ AXY1089 (AV BOARD ASSY : U8504)

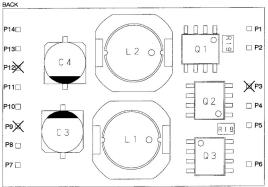
6

• DC-DC Converter Unit

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## • Pin Arrangement (Top view)





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#### Pin Function

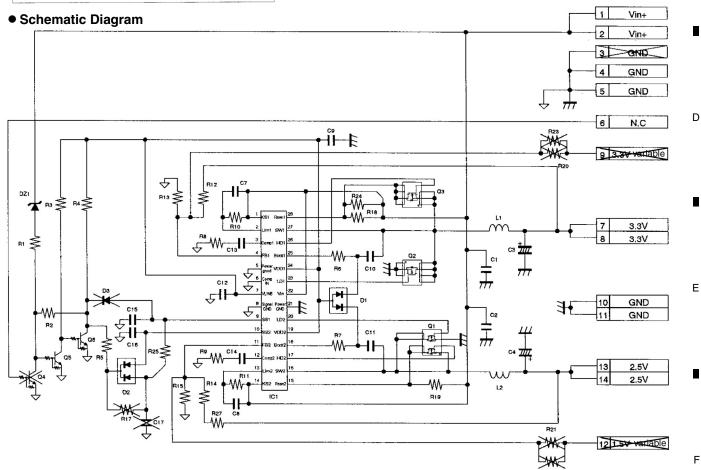
7

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No.	Pin Name	Pin Function
1	Vin	6.5V input
2	Vin	6.5V input
3	Omission terminal	Omission terminal
4	GND	Input side GND
5	GND	Input side GND
6	N.C	N.C
7	Vo1	3.3V output
8	Vo1	3.3V output
9	Omission terminal	Omission terminal
10	GND	GND
11	GND	GND
12	Omission terminal	Omission terminal
13	Vo2	2.5V output
14	Vo2	2.5V output



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## **■** CXA2069Q (AV BOARD ASSY : IC8002)

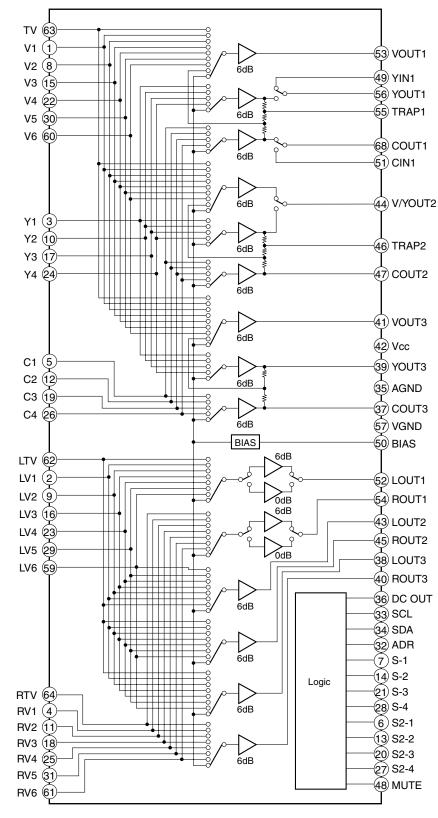
• 7-Input 3-Output Audio/Video Switch

## Block Diagram

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# • Pin Function

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No.	Pin Name	I/O	Pin Function
63 1 8 15 22 30 60	TV V1 V2 V3 V4 V5 V6	ı	Video signal inputs. Input composite video signals.
3 10 17 24 49	Y1 Y2 Y3 Y4 YIN1	ı	Y/C separation signal inputs. Input luminance signals. The YIN1 pin inputs the signal obtained by Y/C separating the VOUT1 pin output.
5 12 19 26 51	C1 C2 C3 C4 CIN1	I	Y/C separation signal inputs. Input chrominance signals. The CIN1 pin inputs the signal obtained by Y/C separating the VOUT1 pin output.
59, 64 4, 11 18, 25	LTV, LV1 LV2, LV3 LV4, LV5 LV6, RTV RV1, RV2 RV3, RV4 RV5, RV6	ı	Audio signal inputs.
53 11	VOUT1 VOUT3	0	Video signal outputs. Output composite video signals.
14	V/YOUT2	0	Video signal output.  Either composite video signal output or luminance signal output can be selected by I2C bus control.
56 39	YOUT1 YOUT3	0	Video signal outputs. Output luminance signals.
58 47 37	COUT1 COUT2 COUT3	0	Video signal outputs. Output chrominance signals.
52 43 38 54 45	LOUT1 LOUT2 LOUT3 ROUT1 ROUT2 ROUT3	0	Audio signal outputs. Zo=50 ohm (within DC $\pm$ 2mA)
6 13 20 27	\$2-1 \$2-2 \$2-3 \$2-4	_	Detects the S2-compatible DC superimposed onto the C signal. 4:3 video signal at 1.3 V or less 4:3 letter-box signal at 1.3 V or more to 2.5 V or less 16:9 picture squeezed signal at 2.5 V or more This pin is pulled down to GND by a 100 k ohm resistor, so the 4:3 video signal is selected when open.

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No.	Pin Name	I/O	Pin Function	
7 14 21 28	S-1 S-2 S-3 S-4	-	Composite video/S selector. The detection results are written to the status register. S signal at 3.5 V or less. Composite video signal at 3.5 V or more. This pin is pulled up to 5 V by a 100 k ohm resistor, so the composite video signal is selected when open.	
32	ADR	_	Selects the slave address for the I2C bus. 90H at 1.5 V or less 92H at 2.5 V or more 90H when open.	
33	SCL	ı	I2C bus signal input VILmax=1.5 V VIHmin=3.0 V	
34	SDA	ı	I2C bus signal input VILmax=1.5 V VIHmin=3.0 V VOLmax=0.4 V	
36	DC_OUT	0	Outputs the S2-compatible DC superimposed onto the COUT3 output. The DC is superimposed by connecting this pin to the COUT3 output via a capacitor. Control is performed by the I2C bus. When 0 V is output, Q1 is ON and the impedance is 5 k ohm. S2 protocol output impedance of $10\pm3$ k ohm is realized by attaching external resistance of $4.7$ k ohm. $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	
55 46	TRAP1 TRAP2	_	Connects trap circuit for subcarrier.	
48	MUTE	_	Audio signal output mute. Mute OFF at 1.5 V or less Mute ON at 2.5 V or more Mute OFF when open.	
50	BIAS	_	Internal reference bias (VCC/2). Connect to GND via a capacitor.	

# 7.4 CLEANING



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Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools		
Fans	Cleaning paper : GED-008		

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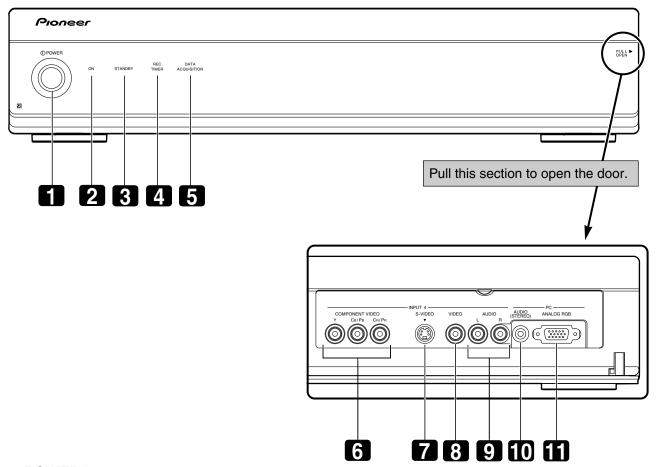
PDP-R05U

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# 8. PANEL FACILITIES

# **Media Receiver**

## Front view



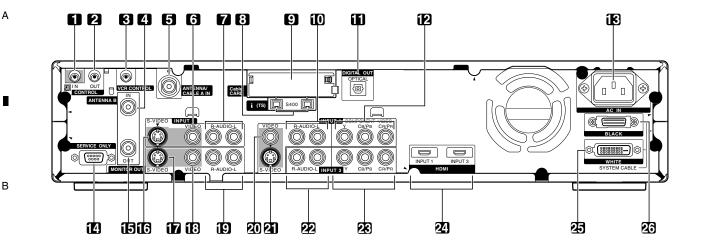
- 1 POWER button
- 2 POWER ON indicator
- 3 STANDBY indicator
- 4 REC TIMER indicator
- 5 DATA ACQUISITION indicator
- 6 INPUT 4 terminals (COMPONENT VIDEO: Y, CB/PB, CR/PR)
- 7 INPUT 4 terminal (S-VIDEO)
- 8 INPUT 4 terminal (VIDEO)
- 9 INPUT 4 terminals (AUDIO)
- **10** PC INPUT terminal (A UDIO)
- 11 PC INPUT terminal (ANAL OG RGB)

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## Rear view



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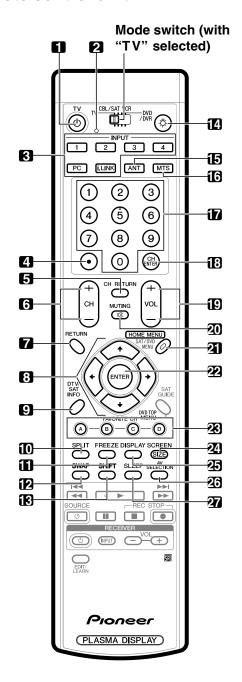
- 1 CONTROL IN terminal
- 2 CONTROL OUT terminal
- 3 VCR CONTROL terminal
- 4 ANTENNA B IN terminal
  - 5 ANTENNA/CABLE A IN terminal
  - 6 INPUT 2 terminal (VIDEO)
  - 7 INPUT 2 terminals (AUDIO)
- 8 i.LINK terminals
  - 9 Cable CARD slot
  - 10 INPUT 1 terminals (AUDIO)
  - 11 DIGITAL OUT terminal (OPTICAL)
- D 12 INPUT 1 terminals (COMPONENT VIDEO: Y,CB/PB, CR/PR)
  - 13 AC IN terminal

- 14 RS-232C terminal (used for factory setup)
- 15 ANTENNA B OUT terminal
- 16 INPUT 2 terminal (S-VIDEO)
- 17 MONITOR OUT terminal (S-VIDEO)
- 18 MONITOR OUT terminal (VIDEO)
- 19 MONITOR OUT terminals (AUDIO)
- 20 INPUT 1 terminal (VIDEO)
- 21 INPUT 1 terminal (S-VIDEO)
- 22 INPUT 3 terminals (AUDIO)
- 23 INPUT 3 terminals (COMPONENT VIDEO: Y,CB/PB, CR/PR)
- 24 HDMI terminals (INPUT1/INPUT3)
- 25 SYSTEM CABLE terminal (WHITE)
- 26 SYSTEM CABLE terminal (BLACK)

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#### Remote control unit



#### With the mode switch set to TV

- **1 TV** (): Turns on the power to the Plasma Display or places it into standby mode.
- 2 Transmission confirmation LED
- 3 INP UT: Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4,PC, i.LINK)
- 4 (dot) : Enters a dot.
- **5 CH RETURN**: Returns to the previous channel.

- 6 CH +/-: Selects the channel.
- **7 RETURN**: Returns to the previous menu screen.
- 8 ★/★/→: Selects a desired item on the menu screen.
- 9 DTV INFO: Shows more information on DTV programs.
- **10 SPLIT**: Switches the screen mode among 2-screen, picture-in-picture, and single-screen.
- **11 FREEZE**: Freezes a frame from a moving image. Press again to cancel the function.
- **12 SWAP**: Switches between the two screens when in the 2-screen or picture-in-picture mode.
- **13 SHIFT**: Moves the location of the small screen when in the picture-in-picture mode.
- 14 🔅 : When pressed, all buttons on the remote control unit will light. The lighting will turn off if no operations are per formed within about 5 seconds. This button is used for performing operations in dark places.
- 15 ANT: Selects the antenna (A, B).
- 16 MTS: Selects the MTS/SAP.
- 170 9: Selects the channel.
- 18 CH ENTER: Executes a channel number.
- 19 VOL +/-: Sets the volume.
- 20 x MUTING: Mutes the sound.
- 21 HOME MENU: Displays the menu screen.
- 22 ENTER: Executes a command.
- 23 FAVORITE CH (A, B, C, D):

Selects any of the four preset channels. See page 37 for details to set the FAVORITE CH While watching, you can toggle the set channels by pressing **A**, **B**, **C** and **D**.

- 24 SCREEN SIZE: Selects the screen size.
- 25 DISPL AY: Displays the channel information.
- 26 AV SELECTION: Selects audio and video settings. (AV mode: STANDARD, DYNAMIC, MOVIE, GAME, USER. PC mode: STANDARD, USER.)
- 27 SLEEP: Sets the sleep timer.

# **MOTE**

- When using the remote control unit, point it at the Plasma Display
- See pages 62 to 68 for operating buttons not listed on this page.

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